NOTICE

TO AWARDING PREPARATORY ANY **FUTURE** DEVELOPMENT OF MAINTENANCE CONTRACTS FOR THIS SYSTEM, USER AGENCIES AND SUPPORTING PROCUREMENT ACTIVITIES MUST ASSURE SELECTED CONTRACTOR FIRMS AGREE TO AND DECLARE, IN WRITING. CONTRACT PERFORMANCE WILL LIMITED TO U.S. CITIZEN PERSONNEL ONLY. THIS IS A MANDATORY REQUIREMENT DUE TO THE MILITARY **TECHNOLOGIES** CRITICAL AND **TECHNICAL** INFORMATION WITH UNIQUE MILITARY UTILITY ASSOCIATED WITH AFFECTED **SOFTWARE** AND SUPPORTING DOCUMENTS.

DESTRUCTION NOTICE

DESTROY BY ANY METHOD THAT WILL PREVENT DISCLOSURE OF CONTENTS OR RECONSTRUCTION OF DOCUMENT.

SUMMARY of CHANGE

AISM 25-P21-A03-AIX-DBDD Personnel Locator (PERSLOC) Database Design Description (DBDD) Manual 20 September 1998

This updated manual--

- ?? Replaces all previous versions of Database Design Description (DBDD) manual prepared in accordance with (IAW) Department of Defense (DOD) documentation standards MIL-STD-498, which was canceled on 27 May 1998.
- ?? Adheres to the documentation standards contained in the Institute of Electrical and Electronics Engineers (IEEE)/Electronics Industries Association (EIA) standard, IEEE/EIA 12207, "Information Technology-Software Life Cycle Process".
- ?? Provides an updated menu hierarchy diagram, entity relationship diagram, database schema and attributes, data dictionary, cross reference tables, and a list of PERSLOC database error messages.
- ?? Provides a blank copy of DA Form 2028 (Recommended Changes to Publications and Blank Forms). This form is at the end of the manual and users may reproduce and use it to write corrections, additions or comments about the manual. Users may, also use it as cover sheet to a marked up copy of the PERSLOC DBDD.
- ?? Be advised that changes would be subject to the approval by the appropriate Subject Area Functional Proponent (SAFP).

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1 SCOPE

1.1 **IDENTIFICATION.**

The following is a full identification of the Personnel Locator (PERSLOC):

- a. Automated Information System (AIS) Identifier, which establishes the base functional components of a system: P21.
- b. System Identification Code (SIC) identifies the software tool methodology that the application is developed: A03.
- c. Title and Abbreviation: Personnel Locator (PERSLOC)
- d. Previously fielded Release/Version Number: 08.01/08.00.
- e. Software Change Package (SCP) Release/Version number being developed/ fielded: P21-A03-09-00.

1.2 DATABASE OVERVIEW.

The purpose of this database for PERSLOC is to describe the database organization and to provide detailed bgical and physical database information necessary to construct the parts of the PERSLOC relational database such as records, tables keys, views and associated directories, and diagrams.

The PERSLOC database is identified by "post" and is working database containing all PERSLOC data elements required to support the PERSLOC. This working database is called the subject area database (SADB) throughout PERSLOC documentation.

The ISM Project was established to create new software applications (or upgrade existing ones) that would automate standard procedures and integrate information used to manage army installations. These software applications are packaged as modules according to the installation management functions they perform. ISM is deployed army-wide and comprises a uniform set of automated tools that assists installation commanders in effectively managing daily operations.

PERSLOC is part of the ISM Project, which is an army-wide Major Automated Information System (MAIS) initiative. The primary objective of ISM is to enhance, through automation, installation management functions. ISM applications consist of standard procedures packaged into functional applications, which automate as well as integrate day-to-day installation processes. ISM applications use Installation Level Integrated Database (ILIDB), which is the central repository for data that is common to more than one ISM application, and various local databases that contain data elements unique to the individual ISM applications.

ISM's operate at garrison locations and support functional managers use of ISM applications and data to manage resources under their control. ISMs perform the following major functions:

- ?? Application-specific support to meet the information needs of installation functional activities and tenant units;
- ?? Command and staff reporting requirements via standard or ad hoc queries run against an application database or the ILIDB; and
- ?? Information exchanged internally among installation functional activities and externally to echelons above installation levels, as well as to Standard Army Management Information Systems (STAMIS).

The purpose of the PERSLOC ISM is to provide assistance in locating address and telephone data for current, inbound and outbound military and civilian personnel assigned to an installation and also print labels for forwarding mail. Telephone operators, mail room clerks, duty officers and charge of quarters officers may use this system. PERSLOC allows you to query and update address and telephone information and performs automated removal of expired records.

1.2.1 Organizational and Personnel References.

The following organizations and personnel maintain a responsibility of interest in the ISM application.

- a. <u>ISM Functional Proponent</u>. The ISM Functional Proponent (FP) is the Office of the Director of Information Systems for Command, Control, Communications, and Computers (DISC⁴).
- b. <u>Application Sponsor</u>. The application sponsor is the Director of Management (DM) Office Chief of Staff, Army (OCSA).
- c. <u>ISM/MISM_FP</u>. The ISM/MISM_FP is the Office of the Director of Information Systems for Command, Control, Communications, and Computers (DISC⁴).
- d. <u>Assigned Responsible Agency (ARA)</u>. The ARA for technical development, testing, fielding and maintenance of this ISM application is the Information Systems Engineering Command (ISEC).
- e. Point of Contact.

Organization: U.S. Army Information Systems Software Development Center

- Washington (USAISSDC-W)

ATTN: AMSEL-SE-IS-SDW-E-I, Stop H-5, 6000, 6th St.,

Suite S122A, Ft. Belvoir, VA 22060-5576

Point of Contact: Major Gale Harrington

Commercial Phone: (703) 275-6941 DSN: 235-6941

1.3 DOCUMENT OVERVIEW.

The objective of this DBDD Manual for PERSLOC is to describe the design of PERSLOC database, that is, a collection of related data stored in one or more computerized files in a manner that can be accessed by users or computer programs via a database management system (DBMS). This also describes the software units used to access or manipulate the data. Use this DBDD as the basis for implementing the database and related software units. It provides the acquirer visibility into the design and provides information needed for software support.

1.3.1 Security.

PERSLOC does not store or process classified data. PERSLOC data is designated as unclassified sensitive-two (US-2), as defined in Army Regulations (AR) 380-19, "Information Systems Security (ISS)," 01 May 1996. This data is "For Official Use Only (FOUO)", and prohibits unauthorized disclosure.

- a. <u>Authorization</u>. An explicit official authorization or an implicit authorization based on official assignments and/or responsibilities is required to access PERSLOC.
- b. <u>Disclosure</u>. You must not disclose personal information contained in PERSLOC except as authorized by AR 380-19.

1.3.2 Security Guidelines for Using PERSLOC.

The following guidance is provided to help users operate the system in accordance with applicable

security provisions.

1.3.2.1 Modifying or Viewing Data.

Entering, modifying, deleting, or viewing PERSLOC data is restricted to users who have explicit authorization to do so. System access is gained using a combination of login name, password, and access permission, which is determined by the system administrator. Only persons, to whom login names and passwords are specifically assigned, shall use them.

- a. <u>Screens</u>. Adjust your Video Display Terminal (VDT) screen so that no unauthorized person can view the informational displays.
- b. <u>Accuracy</u>. Enter or modify data carefully and completely, to avoid storing or transmitting erroneous or incomplete data.

1.3.2.2 Protecting Information Sources.

Safeguard all information input to or generated by the system against unauthorized use, copying, or destruction.

- a. <u>Documents</u>. Prevent unauthorized persons from viewing or accessing any documents, such as forms or manual files, by covering them or storing them in secure containers.
- b. <u>Electronic Media</u>. Label all electronic media, such as tapes or diskettes, and keep them in proper storage containers.

1.3.2.3 Other Theft.

This type of threat concerns the physical misappropriation of the computer containing the application program and its data bank/database. The system includes safeguards such as encryption of data elements, if appropriate, to prevent sensitive data from falling into the wrong hands by physical misappropriation of the system hardware.

1.3.2.4 Service Interruption/Degradation.

This type of threat is normally related to scheduled or unscheduled availability of the system to run the application as intended. The disruption may be due to power outages, environmental situations, etc. The system provides safeguards for restoring systems abnormally terminated/shut down.

1.3.2.5 Human Errors of Commission and Omission.

User carelessness or ignorance is responsible for this type of threat. The system provides safeguards by automatically performing edit checks for enumerated values, acceptable ranges, etc.

1.3.2.6 Privacy Violations.

This type of threat involves unauthorized release of personnel information protected under the Privacy Act of 1974, Section 5, United States Code 552a. Data elements identified as protected under the Privacy Act are safeguarded by the system through encryption, user access levels, or other controls as appropriate.

1.3.2.7 Sabotage.

An authorized user deliberately erasing or otherwise destroying system data files and/or back up file media must be prevented. The system periodically determines duration between system sessions and last system backup. The system also requires a backup to be generated if some predetermined number of sessions has occurred without the operator voluntarily performing a backup operation. The backup ensures that at least three separate backup copies are maintained. The system cycles these copies interactively.

1.3.2.8 Industrial/Military Espionage.

This threat normally involves a former user gaining access to the system for personal benefit. The system provides safeguards to require inactive USERID to be deleted from the system. The system also requires periodic mandatory change of authorized user passwords.

WARNING:

IT IS A VIOLATION OF FEDERAL LAW TO ACCESS, COPY, OR OTHERWISE USE GOVERNMENT COMPUTER RESOURCES WITHOUT SPECIFIC AUTHORIZATION. EACH ACCESS IS SUBJECT TO RECORDING AND AUDITING.

2 REFERENCED DOCUMENTS

2.1 PROJECT REFERENCES.

The following documents are helpful in understanding and performing the tasks described in this manual.

a. <u>Project Request</u>. U.S. Army Management Directorate, AISM 25-P21-A03-OSE-FD, "PERSLOC Functional Description" dated 30 November 1992.

b. <u>Project Documentation</u>.

- (1) U.S. Army, AISM 25-P21-A03-AIX-SUM, "PERSLOC Software User Manual (SUM)," UNCLAS.
- (2) U.S. Army, AISM 25-P21-A03-AIX-SCOM, "PERSLOC Software Center Operator Manual (SCOM)," UNCLAS.
- (3) U.S. Army, AISM 25-P21-A03-AIX-SIP, "PERSLOC Software Installation Plan (SIP)," UNCLAS.

c. <u>Hardware Documentation</u>

- (1) IBM POWERstation and POWERserver Diagnostic Information for Micro Channel Bus Systems, Version 4.2 Part No. SA23-2765-01.
- (2) IBM Adapters, Devices, and cable Information for Micro Channel Bus Systems, Version 4.2 Part No. SA23-2764-01.
- (3) IBM 7012 Models 300 Series Installation and Service Guide Part No. SA23-2624-07.
- (4) IBM 7012 Models 300 Series Operator Guide Part No. SA23-2623-05.

d. Software Documentation

- (1) "MS-DOS User's Guide and Reference," Version 5.0/6.22.
- (2) AIX Version 4.2 Quick Installation and Startup Guide.
- (3) AIX Version 4.2 Installation Guide Part No.SC23-2341.
- (4) AIX Version 4.2 Getting Started Part No.GC23-2521.
- (5) AIX Version 4.2 System User's Guide: Operating System and Devices.
- (6) AIX Version 4.2 System Management Guide: Operating System and Devices.
- (7) AIX Version 4.2 Network Installation Management Guide and Reference.
- (8) AIX Version 4.2, Information For Operation Retrieval/License System (iFOR/LS) System Management Guide.
- (9) Oracle7TM for AIX-Based Systems Installation & Configuration Guide, Part No.A32105-1.
- (10) Oracle^{7TM} SQL*Plus User's Guide and Reference, Version 3.1.
- (11) Oracle7TM Server SQL Language Reference Manual, Part Number 778-70-1292.
- (12) A Technical Introduction to the Oracle Server in the "Oracle7TM Server Concepts Manual".

3 DATABASE-WIDE DESIGN DECISIONS

3.1 DESIGN DECISIONS.

To satisfy PERSLOC requirements, it is necessary to perform a variety of functions. These functions fulfill various objectives considered in designing PERSLOC. Design decisions incorporating all necessary functions and related considerations were instrumental in the development of PERSLOC to assure the system could use the database in the manner proposed. Among these functions and considerations are interactive responses, help text, error messages, input data, outputs, including reports, response time to queries and updates, data storage capacity, system maintenance and data backups. PERSLOC provides a series of interactive and detailed menus, which allow users to enter change or review data necessary to support daily activities. Users may interactively access data through ad hoc queries using Structured Query Language (SQL) or standardized queries.

3.2 DATABASE IDENTIFICATION.

The PERSLOC database is identified by "post" and is a working database containing all PERSLOC data elements required to support the PERSLOC ISM. This working database is called the SADB throughout PERSLOC documentation.

3.2.1 Systems Using the Database.

The PERSLOC ISM is a 'stand alone' system, and is the only application that interfaces with the PERSLOC SADB except for the Installation Level Integrated Database (ILIDB), which shares personnel information used among all the ISM. However, this does not preclude the possibility that future versions of the PERSLOC SADB will interface with other ISM and Standard Army Management Information Systems (STAMIS).

3.2.2 Relationship to Other Databases.

PERSLOC will supersede the current field systems, which use either a manual paper tracking process, or in some instances, "home-grown" automated systems.

3.3 RDBMS.

PERSLOC is designed using a Relational Database Management System (RDBMS) that will:

- a. allow installation-unique tables and attributes.
- b. provide integration with other portions of the installation central data repository previously developed.
- c. use data elements standardized IAW AR 25-9.

The data elements used for PERSLOC are identified from the FD, the Structured Requirements Analysis Planning (STRAP) reports, the STRAP key-based data model, the Joint Application Development sessions, and the Prototyping sessions. Other sources include existing databases, reports, forms, user manuals, and other data stores maintained by the functional organization. These data elements are fully defined in the Army Data Dictionary (ADD), and Automated Dictionary Support System (ADSS).

3.3.1 RDBMS Configuration.

The "post" SADB is a relational database that may reside on any RDBMS that runs under the UNIX operating system environment and supports American National Standard Institute (ANSI) SQL. The "post" SADB is currently being implemented for UNIX using the Oracle7^{TM*} SQL RDBMS, Version 7.3.3.

3.3.2 Hardware Configuration.

The "post" SADB will reside on Portable Operating System Interface for Computing Environments

(POSIX) compliant hardware. The installation hardware being used consists of a IBM RISC/6000 Model 7012-300 series computer containing all hard drives, backup tape drives, the system board, network interface cards (NIC), Random Access Memory (RAM), and necessary processors.

- a. Memory. The IBM RISC 6000 POWERstation and POWERserver System can be configured with as little as 64 megabytes (MB) or as much as 640 MB of 70 nanosecond (ns) RAM (in 64 MB increments). This RAM is based on industry standard 4 MB SIMM and proprietary RAM expansion boards, which can be added at the factory or any time after delivery.
- b. Central processing unit (CPU). The IBM RISC 6000 POWERstation and POWERserver System can contain either two or four processors. These are the Reduced Instruction Set Computer (RISC) integer unit and floating point unit processors. For ITP purposes, the 'four processor' configuration is being used.
- c. Bus. The IBM main processor bus is 64 bits wide with a bandwidth of 80 Mbps.
- d. Tape Device. An 8mm tape drive is required for the tape distribution of Oracle. The tape drive block size should be set to 512.
- e. Small Computer System Interface (SCSI) Devices. All SCSI-controlled peripheral devices, such as compact disk read only memory (CD ROM) drives, 8 millimeter (mm) tape drives, 1/4 inch tape drives are connected directly to the SCSI subsystem. Internal SCSI drives are connected using the on-board SCSI port.
- f. Controller. SQL*Net TCP/IP requires an adapter card that will support TCP/IP.

3.3.3 Database Software Utilities.

The following list of reference manuals gives detailed instructions on using Oracle7TM database software utilities.

- a. Oracle7TM for AIX-Based Systems Installation & Configuration Guide, Part No.A32105-1.
- b. Oracle7TM SQL*Plus User's Guide and Reference, Version 3.1
- c. Oracle7TM Server SQL Language Reference Manual, Part Number 778-70-1292.
- d. A Technical Introduction to the Oracle7TM Server in the "Oracle7TM Server Concepts Manual".

3.3.4 Security.

The security of database components, such as user views of schema, is controlled by the Subject Area Functional Administrator (SAFA), who grants or denies access permissions using the PERSLOC administration menu. Other levels of system security augments this application level security before entering PERSLOC.

3.4 INPUTS AND OUTPUTS.

PERSLOC is to be used as an interactive application. This means that it is designed for access and use from a terminal. PERSLOC gets data residing in the application's specific SADB; however, PERSLOC may also retrieve input from the ILIDB. Initially, the majority of the data input requirements will be from the end user. But as users are added to the common SADB, more and more of the data needed will be provided. In regard to output, reports will require you to specify a range of dates to begin and end the report. This is also true with making queries. Other times, you will provide a social security number (SSN) to locate specific information for an individual.

3.4.1 Inputs.

PERSLOC is able to receive input data via magnetic media (diskette or tape) or electronic data

transfer, either on-line directly from another system or via modem and download.

3.4.2 Outputs.

USERID and passwords will determine the production devices authorized to receive output. Output devices may be located within a local area network (LAN) and will consist of various models of both line-system printers and personal computer "slave" dot-matrix/laser printers. Output will also be provided to 28.8, 14.4, 9.6, and 2.4 KBPS modems for transmissions to external system printers and screens. Output may also be provided to exportable magnetic media such as floppy diskette or cartridge tape.

3.4.3 Response to Inputs and Queries.

Response time extends from the receipt of input data to the availability of products. PERSLOC edits interactive transactions and update tables on-line. Both invalid codes and inconsistent data elements (transaction and resident) are corrected at the time of input. The data will then be immediately available to all processes and sub-processes.

- a. Response time to queries and updates.
 - (1) Queries and updates for data input/update on an individual record will have an immediate response time of not more than one second, ninety percent of the time. This response time is the target for a directly connected device, which are not confused with communication-related lag times-communication lags attributed to dial-ins, communication controllers, multiplexors (MUXs), concentrators, LANs, etc. This target response time is a database design requirement.
 - (2) Queries and updates on multiple records provide adequate response in not more than one second, ninety percent of the time. These transactions take place within an installation, assuming adequate application connectivity is in effect.

3.4.4 Interfaces.

PERSLOC interfaces with the ILIDB and to the Standard Installation/ Division Personnel System (SIDPERS).

3.5 DATABASE/FILE APPEARANCE.

The data elements for PERSLOC are integrated into a multifunctional database as part of the ISM-wide data architecture. By accessing this data architecture, each function within has a view of its data. This view will consist of multiple data elements that are contained in a row of one or more tables.

3.6 LABELING CONVENTIONS.

The PERSLOC SADB is identified as "post". Tables will have an owner identification of "post", and the table names will be identified uniquely depending on the data/function they are related to.

3.7 ORGANIZATION OF THE DATABASE,

The "post" SADB has been designed using relational logic to reside on any RDBMS that runs under the AIX operating system version 4.1 environment and supports ANSI SQL. The current "post" SADB is implemented on Oracle7TM RDBMS version 7.16. Oracle7TM is an integrated multi-user package that can operate in a stand alone microcomputer environment.

3.7.1 Physical Allocation.

The Systems Administrator (SA) determines the physical allocation of the database. Allocation is

determined by physical disk space, number of transactions, and various performance need.

3.8 DATABASE MANAGEMENT USED.

The PERSLOC ISM runs on any UNIX platform using SQL-compliant RDBMS.

3.8.1 Flexibility.

The PERSLOC application design provides flexibility in five ways:

- a. PERSLOC functions are independent of organizational structure. Functions are based on processes rather than people; therefore, it can easily withstand organizational structure changes. A principal design consideration will incorporate functional modularity to facilitate timely implementation and system maintenance. Additional items or functions will be added, or changes made to the existing support module, if necessary. An Automation Working Group (AWG) has been established and will function as a clearinghouse for major support module changes as well as a quality assurance group. The AWG will work closely with the ISM FP in his position as chairman of the ISM Configuration Control Board (CCB).
- b. The PERSLOC functional design minimizes dependence on the technical environment. PERSLOC was designed functionally to be as independent of the technical environment as possible. The technical environment (e.g., hardware, Word processor software, DBMS) may change over time; the PERSLOC functional design will not.
- c. PERSLOC is table driven. Wherever practical, PERSLOC maintains system parameters likely to change or vary between sites in reference tables.
- d. Flexibility at individual installations is achieved through data manipulation by those, authorized access to the support module.
- e. As a system, PERSLOC is designed to accommodate changes in requirements and/or its operating environment. During the design of this system, enhancements and changes in requirements have been incorporated periodically. Because PERSLOC is designed to use relational database technology, changes in structure and data are more easily accomplished. With this consideration in mind, the system is designed with a maximum amount of flexibility so as to adapt to future changes quickly and easily.

3.9 SECURITY.

The ISM Security Support Plan (SSP), in accordance with AR 380-19, Information Systems Security (ISS), and DOD 5200.28-STD, DOD Trusted Computer System Evaluation Criteria (TCSEC), categorizes the information processed by PERSLOC as unclassified-sensitive two (US-2). This means that PERSLOC processes unclassified information, which must be protected primarily to ensure its availability or integrity. Care should be taken to ensure that passwords are protected and that access to information in the PERSLOC system, or reports produced by it, are not disclosed improperly or accidentally. Regulations require that each user be issued a unique USERID and password. All privileges of access and other authorization elements are associated with the USERID. The combination of user identification and accompanying authorizations are maintained in the USERID profile for each user.

A password is the protection mechanism by which the computer authenticates the user's identity and authorization to access information and functions as delineated in the USERID profile. PERSLOC automatically denies any request for use of a privilege or access unless that USERID has been specifically granted that privilege or access.

Users have access to all the information they are entitled to (by virtue of formal access approval) and no more. Access to PERSLOC data is restricted to users that have at least "connect" permission to the "post" SADB or the ILIDB. Persons having Database Administrator (DBA) permission authority can

grant any level of permission, such as "connect," "resource," or "DBA," to other users, so access to these user accounts is strictly controlled through security administration. The information contained in this application is designated as unclassified sensitive-two (US-2). US-2 is unclassified information, which primarily must be protected to ensure its availability and/or integrity. This information also requires protection from unauthorized personnel to ensure confidentiality. Examples of US-2 include information dealing with logistics, medical care, personnel management, Privacy Act data, contractual data and *FOUO* information.

Menu presentation is sensitive to user authorized access levels and only display those menu choices that the user has authorized access. Similarly, if the user accesses a menu selection for which there is no data, the application directly informs the user that no data is available for the report before the user sends the report request to the printer or screen.

All data, which is subject to the Privacy Act, pursuant to Public Law 93-579, is handled in such a manner as to preclude unauthorized release of the information. The PERSLOC support module contains sensitive, unclassified data.

3.10 DATABASE DISTRIBUTION, UPDATES AND MAINTENANCE,

Design decisions on database distribution, updates and maintenance relate to the host computers at the installations, which provides ISM application processing databases for client users, who gain access through workstations.

3.10.1 Distribution.

The support module distributes output products as on-line response to a process; electronic distribution (electronic mail, packet-switching transfer, and downloading) of a hard copy listing; or by printing and mailing of hard copy reports. The vulnerability to be guarded against in any distribution and disposition system is that the distribution can be made to an unauthorized position or person and an incomplete document can be delivered. Additionally, premature disposition can hamper validation and error correction.

3.10.2 Maintenance.

The system functional area supports the administration and maintenance of the automated PERSLOC. This includes user account management, system backup and restore, generation of transactions, and correction of individual identifiers throughout the system. The successful operation of maintenance depends on the SA who performs regular system backups and can restore the database, if the PERSLOC fails. When the SA performs a complete backup, all of the data in the PERSLOC are copied onto a file in a suitable backup media. Later, the database may be restored to its state, the day of the backup, by restoring only this file. This copy defines a baseline from which incremental (or partial) backups may be made.

As the amount of data in the local database becomes very large, only a small percentage will be changed each day. If the SA performs an incremental backup, only the data that have changed since the last backup are copied to the backup medium. Incremental backups may be made several times after one complete backup. In the event of major data corruption, the complete backup is restored first. Then, each incremental backup is restored, in succession, until the database is restored with the contents as of the desired day. Occasionally, as the number of incremental backups increases, the SA will perform another complete backup to establish a new baseline date; the incremental process is then repeated.

3.10.3 Integrity.

The PERSLOC is an unclassified, administrative system used primarily for identifying and tracking current, inbound and outbound military and civilian personnel assigned to an installation. It is assumed

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that the most likely threat to PERSLOC data integrity is authorized users attempting to falsify data concerning the personnel. The risk of unauthorized penetration of the system by outside parties is considered low. The installation ISM SA will be responsible for computer hardware and software integrity. Backup and recovery are the most critical aspects of those responsibilities.

3.11 BACKUP AND RESTORATION.

Maintaining an alternative file storage area provides protection against delays, destruction of software and data. This storage level is mandatory for all Data Processing Installations (DPIs) that provide critical AIS support to the organization's mission performance. This requires off-site storage of at least one copy of all AIS files, programs, and procedures necessary to operate all high-priority applications, either at the processing site or at an alternate site. The alternate files storage area should be reasonably close to the processing site, but not subject to the same degree of major threat as the original site. It is usually recommended that the alternate files storage area be located at least one mile from the processing site.

3.12 STORAGE REQUIREMENTS.

Storage requirements for PERSLOC workstations and file server were estimated for two specific areas. The data storage requirements were determined based on limited sizing information including size of installation and projected number of transactions. The second area considered in estimating data storage requirements was the requirement for the system's operational capacity. Estimates for this type of data storage include requirements for the AIX OS version 4.1 PERSLOC application and Oracle7TM database software, since all are necessary for PERSLOC operation.

The IBM RISC/6000 Model 7012-300 series System can be configured with as little as 64 megabytes (MB) or as much as 640 MB of 70 nanosecond (ns) RAM (in 64 MB increments). This RAM is based on industry standard 4 MB Single Inline Memory Modules (SIMM) and proprietary RAM expansion boards, which can be added at the factory or any time after delivery.

3.12.1 Physical Mapping of Database Tables.

The PERSLOC SADB is stored on disk in the form of relational tables. The PERSLOC tables are mapped to the ILIDB database, which contains general military personnel information shared by other ISM.

DETAILED DESIGN OF THE DATABASE

4.1 **DESIGN METHODOLOGY.**

The PERSLOC was designed using a structured methodology. This design and development effort included data modeling, normalizing to third normal form, and tuning the finalized data structure for the sake of efficiency. The organization of data and the use of standard data manipulation languages, such as INFORMIX, ORACLE and ANSI-SQL, allow for easy portability to other platforms. RDBMS is an important component in this design since its advantages are numerous.

4.1.1 Content.

There is no subordinate schema within PERSLOC, and it uses shared personnel data from the ILIDB database.

4.1.2 Description.

For a description of the PERSLOC schema, with its physical data element description including indexes and keys, refer to Sections 10, 12, and 13. All access restrictions are determined by the DBA.

4.1.3 Physical Structure.

Refer to Section 10.

4.1.4 Sizing.

Sizing is dependent on the workload and capacity of each installation. The number of records and transactions processed within each installation determines the amount of storage required for each installation's "post" SADB. The PERSLOC DBA monitors the subject area database.

4.1.5 Recovery.

Local policy and the operational environment control the frequency of backups. At a minimum, the total "post" SADB is backed up at least once a day. PERSLOC is an on-line processing ISM requiring no restart procedures within the application software.

The Oracle7TM RDBMS supports automatic rollback of all partially completed transactions resulting from hardware or software failures. All users performing data manipulation operations at the time of the failure are required to check the last activity performed to ensure that the transaction(s) were affected. Transactions entered prior to the last backup will be captured in the transaction log. If the "post" SADB is destroyed, it can be rebuilt by first restoring it from the latest PERSLOC backup tape followed by executing the transactions in the transaction log.

The DBA will assist functional users during restart/recovery procedures. For detailed information on SADB backup and recovery utilities, such as DBEXPORT, DBIMPORT, and DBSCHEMA, refer to Oracle 7 On-Line Administrator's Guide, Version 3.1, and Oracle 7TM On-Line User's Guide, Version 3.1.

4.1.6 Requirements Cross-Reference.

Cross-reference information obtained from Section 3 of the PERSLOC FD and Section 4 of the PERSLOC System/Subsystem Specification (SS) follows:

N/A

PERSLOC FD PERSLOC SS

Section 3.3 Inputs/Outputs

N/A

Section 3.4 Database/Data Bank Character

4.2 TABLE INFORMATION.

4.2.1 Rationale.

One of the most important features of a RDBMS is its ability to join data from different tables. Instead of storing identical data in several tables, an RDBMS allows access to data from several tables at once and displays it as if it were stored in a single table. Joining lets you rearrange the view of a database and create new relationships. You can expand the scope of a database by joining new tables to existing tables.

4.2.2 Content.

Section 10 contains the table names, data elements, and their attributes. The data dictionary is contained in Section 12.

4.2.3 Description.

Refer to Section 12.

4.2.4 Storage Control Parameters.

Database/table parameters will be determined by the following:

- Requirements of the database such as number and content of tables and records. a.
- b. Storage available.
- Oracle7TM database documentation (procedures/instructions for creating and c.

administering a database).

4.2.5 Recovery.

Local policy and operational environment control the frequency of backups. At a minimum, the total "post" SADB is backed up at least once per day. PERSLOC is an on-line processing ISM requiring no restart procedures within the application software.

The Oracle7TM RDBMS supports automatic rollback of transactions partially completed due to hardware or software failures. Each user performing data manipulation operations at the time of failure must check for the last active transaction to determine what transaction must be done again.

Transactions conducted since the last backup is captured on a transaction log. If the "post" SADB is destroyed, it can be rebuilt by first restoring the latest backup and then executing the program which will apply the transaction log tape to the "post" SADB. All work would be restored except for any transactions not captured on the transaction log.

The application DBA/SA will assist the functional users during restart/recovery procedures. The installation DBA/SA will assist functional users when necessary.

For detailed information on database backup and recovery utilities, such as DBEXPORT, DBIMPORT, and DBSCHEMA, refer to Oracle7TM On-Line Administrators Guide, Version 3.1, and Oracle7TM On-Line Users Guide, Version 3.1.

4.3 DATABASE DESIGN LEVEL.

The modelling levels presented here are suited to a top-down system development life cycle in which successive levels of detail are created during each project phase. The highest level models come in two forms:

- ?? Entity Relationship Diagram (ERD) and
- ?? The Key Based (KB) Model

The ERD form identifies major application entities and their relationships. The KB model represents a third form relational model, which sets the scope of the application information requirement and delineates the detail.

The DBMS model adopted for this application is the area level information model. This model provides the "Area" scope for the integrated system.

An Area information model covers a broad application area, which is usually larger than the application single automation project. This model consists of both the ERD and KB model.

The ERD, is a high level information model, which shows the major entities and the relationships that support a wide application area. The objective of the ERD is to provide a view of application information requirements sufficient to satisfy the need for broad planning and development of its information system.

The KB model, is the third normal form information model, which describes the major data structures supporting a wide application area. The objective KB model provides a wide application view of data structures and those keys needed to support the area. This model provides a context in which detailed implementation level models are constructed. The model covers the same scope as the ERD, though in greater detail.

4.4 SUPPORT SOFTWARE AVAILABLE FOR HANDLING THE DATABASE.

The objective configuration PERSLOC ISM will adhere to open systems architecture. Data information needs require the database management software to use a relational database with ANSI SQL capabilities. To enable interconnection to existing systems, X.25 with TCP/IP, Telnet, 3270 Systems

Network Architecture (SNA) and standard synchronous and asynchronous communications software are required.

The current Army installation software environment is composed of DATACOM/DB, ROSCOE, CICS, UNIX/XENIX, MS-DOS, ORACLE, SQL/DS, XDB, DB2, IBM VM/VMS or VM/VSE operating system environment, COBOL and C compilers, in addition to other packages.

The Open Systems Environment (OSE) complies with the following:

- a. Operating System:
 - Multi-user, multi-tasking
 - POSIX compliant
 - Diagnostics/monitoring/control capabilities are accessible from a remote control center
 - ADA/SQL/GOSIP bindings are available
- b. Access Control Mechanisms:
 - Keyed to users (by userid)
 - Managed by a data administrator and a security officer
- c. Program Support:
 - ADA and APSE support
 - On-Line documentation available
 - 4GL/5GL applications generator available
 - SQL-compliant database access standard

The following are examples of software available for handling the database:

- a. Database analysis tools for reorganizing or changing data include a database definition and manipulation language that is an extension of the ANSI standard SQL.
- b. The DB-Monitor software utility is available for the initialization or resizing of the database. This program allows the set up of the initial operating parameters including the server number, maintenance of logical logs and archives, tuning the Oracle7TM On-Line parameters to use disk, memory, and recovery features effectively, and observe status of the system.
- c. Database utilities for saving and restoring the database and its data include dbexport, dbimport, dbschema, tbload, tbunload. These utilities are explained in detail within the Oracle7TM OnLine Administrator's Guide, Version 3.1.
- d. Oracle7TM OnLine has facilities to handle failures of both mirrored and non-mirrored media. For example, when the failed medium is mirrored and the primary disk partition, called a chunk is repaired or replaced, the DBA then executes ORACLE-OnLine to recover the chunk, and then it is brought on-line. For explicit details on recovering mirrored and non-mirrored media, reference Oracle7TM On-Line Administrator's Guide, Version 3.1.

5 SOFTWARE UNITS USED FOR DATABASE ACCESS OR MANIPULATION

5.1 DATABASE ACCESS AND MANIPULATION.

Only users who have explicit authorization are allowed to enter, modify, delete, or view PERSLOC data. The SA administrates the system access using a combination of login name, password, and access permissions. Only, persons to whom login names and passwords are specifically assigned by the SA shall use them. It is through the "PERSLOC Initialization/Admin Menu" that the PERSLOC administrator controls which user LOGIN ID has access to the specific PERSLOC functions.

5.2 CURRENT ARMY INSTALLATION SOFTWARE ENVIRONMENT.

The current army installation software environment is comprised of DATACOM/DB, ROSCO, CICS, UNIX/XENIX, MS-DOS, ORACLE, SQL/DS, XDB, DB2, IBM VM/MVS or VM/VSE operating system environment, COBOL compilers, C compilers, and many other packages.

5.2.1 Software Units.

This paragraph has been tailored out. The software units that access or manipulate the database are described in "Software Design Descriptions (SDD).

5.3 SOFTWARE ENVIRONMENT.

The PERSLOC ISM runs on any UNIX System V platform against a SQL-compliant RDBMS. Terminals may consist of any ANSI 3.64 type or a personal computer (PC) with a similar emulation program. Printers, modems, and other peripherals will be site specific.

To successfully execute PERSLOC, the system environment should consist of the hardware, software, and utilities designated in paragraphs 5.3.1 and 5.3.2.

NOTE: This ISM application is not dependent upon any one particular model of computer. The hardware described in the following paragraphs is one of the configurations possible for operating the PERSLOC application.

5.3.1 Hardware Required.

Hardware configurations required to support PERSLOC are:

- a. <u>Computer</u>. IBM RISC/6000 39H.
- b. <u>Local Computer Workstation</u>. 386/486/586 class personal computer, a keyboard, a monitor, power strip/surge suppressor, communications interface.
- c. <u>Printers</u>. For reports high-resolution dot-matrix impact printer, with RS-232 serial communications interface and 132 column wide format.

5.3.2 Software Required.

The software required, to run, PERSLOC ISM includes:

- a. <u>Operating System (OS)</u>. AIX OS Version 4.2 Release Manual. The operating system supervises the work of the computer and provides software utilities.
- b. <u>RDBMS</u>. ANSI SQL- compliant relational database management system (such as Oracle7TM ESQL/C Version 7.3.3). The database is a collection of data, information about indexes, and system catalogs that describe the structure of the database.
- c. <u>ISM Application</u>. This is the PERSLOC application software that is used in host mode.
- d. <u>Local Operating System</u>. MS-DOS 5.0/6.22 disk operating system. This operating system controls the work of the local installation computer and provides local mode software utilities.
- e. <u>Local Communication Software</u>. Various types of communications protocol software

may be used, depending on your installation configuration. This software formats, arranges data for transmission and controls the transfer of data between computers.

5.3.3 Database/Data Bank Characteristics.

PERSLOC is designed using a RDBMS that will:

- a. allow installation-unique tables and attributes.
- b. provide integration with other portions of the installation central data repository previously developed.
- c. use data elements standardized in accordance with (IAW) AR 25-9.

The data elements used for PERSLOC are identified from the FD, the STRAP reports, the STRAP key-based data model, the Joint Application Development sessions, and the Prototyping sessions. Other sources include existing databases, reports, forms, user manuals, and other data stores maintained by the functional organization. These data elements are fully defined in the ADD/ADSS.

The data elements for PERSLOC are integrated into a multifunctional database as part of the ISM-wide data architecture. By accessing this data architecture, each function within has a view of its data. This view will consist of multiple data elements that are contained in a row of one or more tables.

5.4 DATA INTERFACES.

The information that follows shows the context of PERSLOC within the universe of STAMIS and systems with which it interfaces. These interfaces are described below, listed in priority order of establishing the interfaces.

- a. <u>ILIDB</u>. The PERSLOC-ILIDB interface is mandatory and of critical importance. PERSLOC will receive selected personnel-related data elements from the ILIDB providing common-use information such as name, rank, location, etc., upon the identification of the soldier by a key field, such as SSN or its derivative. The ILIDB interface is to be read-only, i.e., PERSLOC will, upon demand, solicit information from the ILIDB but will not attempt to update ILIDB data. However, an easy-to-use, reliable, and timely method is required to effect corrections in the ILIDB and its source databases in cases where incorrect data are discovered and verified.
- b. <u>MACOM/HQDA</u>. This interface requirement includes the ability to send summary data from an installation to its parent MACOM and to HQDA. This interface is two-way; the requirement exists to receive data from the MACOM and HQDA level. An electronic mail (E-Mail) capability is available to link installation users to the MACOMs and HQDA.

5.5 ERROR HANDLING.

With each SQL statement, PERSLOC checks whether an error has occurred. If one has occurred, a message is sent to the user in a form similar to the following:

SQL ERROR:

ERROR: -284 A Database Error has occurred. Please contact your database administrator to take the required action.

Refer to Oracle-SQL Reference Manual, version 7.0.

5.6 MESSAGES.

PERSLOC error messages are listed alphabetically by label in Section 9. Where the necessary corrective action is not self-explanatory, an explanation is given.

6 REQUIREMENTS TRACEABILITY.

Information pertaining to this section is currently unavailable.

7 NOTES

7.1 SPECIAL INSTRUCTIONS.

The following document references contain instructions to be followed by personnel who generate the "post" SADB and use it for testing and operations. These references include Oracle7TM documentation that gives specific information about Oracle7TM database administration.

- a. Oracle 7^{TM} for AIX-Based Systems Installation & Configuration Guide, Part No.A32105-1.
- b. Oracle7TM SQL*Plus User's Guide and Reference, Version 3.1
- c. Oracle7TM Server SQL Language Reference Manual, Part Number 778-70-1292.
- d. A Technical Introduction to the Oracle Server in the "Oracle7TM Server Concepts Manual".

7.2 DATABASE SOFTWARE UTILITIES.

The following list of reference manuals gives detailed instructions on using $Oracle7^{TM}$ database software utilities.

- a. Oracle7TM Server documentation.
- b. Oracle7TM Tools documentation.
- c. Oracle7TM Server Concepts Manual.
- d. Oracle7TM Server Utilities User's Guide.
- e. Oracle7TM Server Administrator's Guide.
- f. Oracle7TM Server SQL Language Reference manual.
- g. Oracle7TM Server Messages and Codes manual.

8 TERMS AND ABBREVIATIONS

6 TERIVIS AND ADDRE	VIATIONS
<u>Terms</u>	Explanation
Chunk	A large continuous section of disk space for INFOR MIX-On Line.
Disk Mirroring	Storing the same data on two disks simultaneously.
Transaction	A collection of one or more SQL statements that is treated as a
	single unit of work.
Transaction Log	Called a logical log. A file containing a list of all changes that were
C	performed on a database during the period the log was active.
Abbreviations.	
<u>Acronyms</u>	Definition
	Assistant Chief of Staff for Installation Management
ADD	
	Army Installation Management System
	Automated Information System
	Automated Information System Manual
	Automated Information System WantanAmerican National Standards Institute
AR	Army Network Systems Operator Center
	, .
	Assigned Responsible Agency
	Automation Working Group
	Configuration Control Board
	Database Design Description
DDN	
DM	
DMC	_
DPI	
EPI	•
ERD	•
ESO	
FD	
FOUO	For Official Use Only
FP	Functional Proponent
	Installation Level Integrated Database
ISM	Installation Support Module
ISEC	Information Systems Engineering Command
ISS	Information Systems Security
KB	Key Based
LAN	
MACOM	Major Command
	Major Automated Information System
MUX	
OCSA	•
	Office of Director of Information System for Command, Control,
	Communication and Computers
OM	Computer Operations Manual
OSE	
PC	<u> </u>
PERSLOC	
	Portable Operating System Interface for Computer Environment
RAM	Nanuoni Access ivieniory

RDBMS	.Relational Database Management System
SA	.Systems Administrator
SADB	.Subject Area Database
SCOM	Software Center Operator Manual
SIDPERS	.Standard Installation/Division Personnel System
SIP	.Software Installation Plan
SQL	Structured Query Language
SSN	
STAMIS	Standard Army Management Information Systems
STRAP	Structured Requirements Analysis Planning
SUM	.Software User Manual
TSC	.Training Support Center
TSO	.Training Support Officer
US-2	. Unclassified Sensitive - Two
USAISSDC-W	.U.S.Army Information Systems Software Development Center -
	Washington DC.

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9 PERSLOC ERROR MESSAGES

PERSLOC error messages are listed below, alphabetically by label. Where the necessary corrective action is not self-explanatory, it is explained below the message.

Address Record Exists

The address information is being added into the database.

Correction Procedure: Retrieve record again to change information.

Database Error

Please notify your Database Administrator regarding this condition

DATABASE ERROR

Database Error num has been encountered. The SSN = num you have requested is NOT EXISTING.

Please choose another unit.

DATABASE ERROR

Database Error num has been encountered. The SSN=num you have requested is being EDITed by another user. Please try again later.

DATABASE ERROR

Database Error num has been encountered. Please try again later.

DATABASE ERROR

Database Error num has been encountered.

Please notify your Database Administrator regarding this condition.

DATE ENTRY ERROR

Please re-enter date using the format YY[YY]/MM/DD or YY[YY]MMDD.

DATE ERROR

Please be sure that the mandatory departed date must be not earlier than one year from today.

Correction Procedure: Enter a new date.

DATE SEQUENCE ERROR

BEGIN DATE must not be earlier than the END DATE

Correction Procedure: Enter a new BEGIN DATE or END DATE.

DELETE ADDRESS TABLE

No Record has been found for SSN=num

ERROR - Access Denied

You do not have access to this area. Talk to your ISM Administrator if you need access to this area.

Correction Procedure: The user must be granted permission in Add/Change Persloc User in order to enter the Peacetime Menu.

ERROR - Access DENIED

Access to this application is denied for your login. Consult the ISM Administrator for information concerning this ISM or to request access permission.

Correction Procedure: The user must be added to the system in Add/Change PERSLOC User in order to use the application.

ERROR - Access Denied - Demobilization

You do not have access to this area. Talk to your ISM Administrator if you need access to this area.

Correction Procedure: The user must be granted permission in Add/Change Persloc User in order to enter the Demobilization Menu.

ERROR - Access Denied - MASTER Item

You do not have access to this area. Talk to your ISM Administrator if you need access to this area.

Correction Procedure: The user must be granted permission in Add/Change Persloc User in order to access options 7 and 8 from the Master Menu.

ERROR - Add Phone Record

No Phone record was found with the criteria.

If you want to add a record, please enter all the required information

- 1. Unit Identification Code (and organization ID if any); and
- 2. Organization Telephone Number Type Code (C, I, M, R, T or U); and
- 3. Information Telephone Number Purpose Code (A, B, C, D or E); and
- 4. Information Telephone System Code (A, C, F or W).

ERROR - Add Unit - Record Exists

Unit information cannot be added. Unit information already exists. Please re-enter the unit name or F6 to CANCEL.

ERROR - Browse Civilian Phone By Name

You have not provided any SELECT CRITERIA. This query cannot proceed unless at least one letter is entered.

Corrective Action: Type a name or partial name into the input field.

ERROR - Browse Military Address By Name

You have not provided any SELECT CRITERIA. This query cannot proceed unless at least one letter is entered.

Corrective Action: Type a name or partial name into the input field.

ERROR - Browse Military Address By Name

The name you are searching for was not found in the address table. You may wish to check the MILITARY TABLE by choosing Item 1 Military Telephone Locator Service Menu.

Correction Procedure: Choose option 1 on the PERSLOCATOR Peacetime Menu and browse the MILITARY TABLE to see if the name you are looking for is in the database.

ERROR - Browse Military Phone By Name

You have not provided any SELECT CRITERIA. This query cannot proceed unless at least one letter is entered.

Corrective Action: Type a name or partial name into the input field.

ERROR - Browse Phone

No Phone record was found with the criteria. Please check your entry.

ERROR - Cannot Modify User

The logname of the ISM Administrator has been entered. This user cannot be modified or deleted with the PERSLOC Security Administration function. For further information, please consult the ISM Administrator.

ERROR - Cannot Delete User

Cannot delete user. Either user does not exist in the ISM Database or you selected the main ISM user to delete. Please try again.

Correction Procedure: Enter a valid user to delete in the input field.

ERROR - No Civilian Address Record Found

The name you are searching for was not found in the departed table.

You may wish to check the CIVILIAN TABLE by using F3 = browse to civilian personnel when the screen returned back to Browse Civilian Personnel by Name.

Correction Procedure: Browse the CIVILIAN TABLE to see if the name you are looking for is in the database.

ERROR - Civilian Phone Record

The person is at least in the civilian table but the record cannot be retrieved. Please check your tables in the database and make sure that the UPC of the individual has an associated UPC in the phone table.

Correction Procedure: Make sure the UPC for the specified SSN is the same in both the individual and civilian tables.

ERROR - No Civilian Phone Record

No civilian phone record was found with these criteria.

Correction Procedure: Enter a new name or partial name in the input field.

ERROR - No Civilian Record

No Civilian departed record or military record was found with that name. Please check the spelling of your entry.

Correction Procedure: Enter a new name or partial name in the input field.

ERROR - Civilian Record not found - SSN

Please check for correct SOCIAL SECURITY NUMBER. No records were found for this social security number.

Correction Procedure: Enter another SSN in the input field.

ERROR - Departed Locator Cards Report

No soldiers have departed the installation in the last 12 months.

ERROR - Expected Arrival Soldiers Report

There are no soldiers expected to arrive at the installation within 45 days.

ERROR - ILIDB Access

The person is in the departed table but the ILIDB cannot be accessed. Please check with your ISM administrator.

Correction Procedure: The ILIDB may be down. Abort the operation and restart the ILIDB machine.

ERROR - Incomplete Forwarding Address

There is no insufficient forwarding address in the Directory Mail Cards file for the past 30 days.

ERROR - No Mil Phone Record Found (Name)

No Military record was found with this name. Please check the spelling of your entry.

Correction Procedure: Enter a new name or partial name in the input field.

ERROR - Military Address Not Found - SSN

The name you are searching for was not found in the address table. You may wish to check the MILITARY TABLE by choosing Item 1 Military Telephone Locator Service Menu.

Correction Procedure: Choose option 1 on the PERSLOC Peacetime Menu and browse the MILITARY TABLE to see if the name you are looking for is in the database.

ERROR - Military Address Record

The person is in the departed table but the record cannot be retrieved. Please check your tables in the database.

ERROR - Military Personnel File Departed

No soldiers have departed the installation in the past 30 days.

ERROR - Military Phone Record

The person is at least in the military table but the record cannot be retrieved. Please check your tables in the database and make sure that the UPC of the individual has an associated UPC in the phone table.

Correction Procedure: Make sure that the UPC for the specified SSN is the same in both the individual and mil_pers tables.

ERROR - Military Record not found (SSN)

No records found for the entered social security number.

ERROR - No Military Phone Record

No military phone record was available for this person.

ERROR - No Such Printer

No such printer is defined for this ISM. Please try again.

Correction Procedure: Use F2=CHOICES to choose the correct printer.

ERROR - No such USER!

The user entered does not exist in your UNIX system. Please try again.

Correction Procedure: Enter a new user name.

ERROR - Past 30 day Cutoff on Hold Report

There are no soldiers with mail at the Personnel Locator Branch who has passed the 30 days cut-off time period.

ERROR - No Phone Record Found

No Phone record was found with the criteria. Please check your entry.

ERROR PERSLOC - No DBA Permission

Sorry, you do not have DBA permission to the ILIDB and PERSLOC databases. If you want to have access to this, you must MANUALLY grant DBA permissions for both the ILIDB and PERSLOC databases. Talk with your DB administrator if you have any questions.

Correction Procedure: Only login ``root'' can use this menu item.

ERROR - Print Address Labels By Name

You have not provided any SELECT CRITERIA. This query cannot proceed unless at least one letter is entered.

Correction Procedure: Enter a name or partial name in the input field.

ERROR -Print Address Labels By Name

The name you have entered is not in the ADDRESS TABLE (no forwarding address available).

ERROR - Projected Gains List Report

There are no soldiers due to arrive within the specified time period.

ERROR! Cannot open file!

Correction Procedure: Cannot open UNIX file. Try again later.

ERROR! Printer configuration not working!

Correction Procedure: Make sure the printer is turned on and is on-line.

FATAL ERROR

A fatal PERSLOC error has occurred. Please notify your system administrator. (Error = segmentation violation)

FATAL ERROR

A fatal PERSLOC error has occurred. Please notify your system administrator. (Error = bus error/core dump)

NO UPC IS FOUND

No Unit Identification Code is found in the database. No data can be added or changed

Correction Procedure: Check the unit table in the ILIDB. No data is being retrieved from this table.

Social Security No

You must enter 9-digit Social Security Number.

Correction Procedure: Enter a valid SSN.

SSN ERROR

Please enter 9-digit Social Security Number

Correction Procedure: Enter a valid SSN.

SSN Not Found

The ssn = num does not exist in the Address Table. Record cannot be printed.

System Error

Please notify your System Administrator regarding this condition.

SYSTEM ERROR

System Error: num

Please notify your Systems Administrator regarding this condition.

UPC Exists

The phone information is being added into the database.

Correction Procedure: Another user has added the record already. Use the ``change'' ability to modify the data.

WARNING

The soldier SSN=num has been manually added to the system.

ZIP ENTRY ERROR

Please re-enter zipcode. There should be 5-digit zipcode in the first part, or 9-digit zipcode code or no zipcode entry at all.

Correction Procedure: Enter a valid zip code.

10 PERSLOC HIERARCHY DIAGRAM

```
Menu Name or Screen
                                                                                                                      Executable
Master Menu
                                                                                                                     ==> post_prg
????1. Peacetime Menu
                                                                                                                  ==> post_inf_prq
      ????1. Military Telephone Locator Service Menu
?
            ????1. Browse Military Phone by Name
            ????2. Inquire Military Phone by SSN
?
      ????2. Civilian Telephone Locator Service Menu
?
            ????1. Browse Civilian Phone by Name
            ????2. Inquire Civilian Phone by SSN
      ????3. Mail Directory Service Menu
?
            ????1. Browse Military Address by Name
?
            ????2. Inquire Military Address by SSN
?
      ????4. Address Table Menu
?
            ????1. Add/Change Address Table Record
?
            ????2. Delete Address Table Record
?
      ????5. Phone Table Menu
           ????1. Add/Change Phone Record
?
            ????2. Browse Phone by UPC
?
            ????3. Delete a Phone Record
?
      ????6. Print Address Labels by SSN
?
      ????7. Print Address Labels by Name
?
      ????8. Batch Print Address Labels Menu
?
            ????1. Print Address Labels from Batch File
            ????2. Clear Address Labels Batch File
?
     ????9. Report Menu
?
           ????1. Past 30 day Cutoff Mail on Hold Report
      ?
?
            ????2. Departed Locator Cards Report
?
            ????3. Projected Gains List Report
      ?
?
            ????4. Expected Arrival Soldiers Report
?
           ????5. Incomplete Forwarding Address Report
           ????6. Military Personnel File Departed List
?
      ????10. Ad Hoc Query
                                                                                                                   ==> adhoc_prg
           ????1. Create A Basic Ad Hoc Query
?
?
            ????2. Create an Advanced Ad Hoc Query
           ????3. Change a Saved Ad Hoc Query
?
            ????4. Delete Ad Hoc Queries
?
            ????5. View/Print Saved Ad Hoc Query Results
             ????6. View Saved Ad Hoc Query Statements
????2. Transition to War Menu
????3. Wartime Menu
????4. Demobilization Menu
      ????1. Add/Change Unit
      ????2. Inquire About a Unit
      ????3. Delete Unit
?
????5. Customer Assistance Menu
      ????1. Telephonic
      ????2. Message
?
     ????3. Problem Report
                                                                                                                    ==> ecps_prg
           ????1. Add/Change ECP/PR
?
     ?
          ????2. Delete ECP/PR
?
     ?
            ????3. Submit ECP/PR
            ????4. Telnet to STARS BBS
```

PERSLOC Hierarchy Diagram

```
Menu Name or Screen
M
     5
?
      ????4. ISM Data Sheet
?
????6. Problem Reports/ECP-S Submission
                                                                                                                  ==> ecps_prg
      ????1. Add/Change ECP/PR
     ????2. Delete ECP/PR
?
     ????3. Submit ECP/PR
     ????4. Telnet to STARS BBS
?
            ????1. View Status of Problem Reports
?
                  ????1. Application Software Standard Reports Menu
?
                  ?
                        ????1. All Open ECP-S by DPI Code
?
            ?
                  ?
                        ????2. All Closed ECP-S by DPI Code
                      ????3. All Canceled ECP-S by DPI Code
?
            ?
                  ?
?
           ?
                  ? ????4. All Open PR by DPI Code
?
           ?
                  ? ????5. All Closed PR by DPI Code
?
            ?
                  ?
                       ????6. All Canceled PR by DPI Code
?
            ?
?
            ?
                  ????2. Executive Software Standard Reports Menu
?
           ?
                       ????1. All Open ECP-S by AIS Code
?
           ?
                        ? ????1. Executive Software Open ECP-S by specific AIS Code
                       ?
?
            ?
                               ????2. Application Software Open ECP-S by specific AIS Code
?
?
           ?
                        ????2. All Closed ECP-S by AIS Code
                       ????3. All Canceled ECP-S by AIS Code
?
?
           ?
                         ????4. All Open PR by AIS Code
?
            2
                         ????5. All Closed PR by AIS Code
                         ????6. All Canceled PR by AIS Code
?
?
           ????2. View Individual Problem Reports/ECP-S
?
           ? ????1. ISM Application Software
?
                  ????2. Executive Software Baseline
?
?
            ????3. View Statistical/Analysis Reports
?
            ? ????1. ISM Application Software Statistical/Analysis Report Menu
?
            ?
                  ????2. Executive Software Statistical/Analysis Report Menu
?
            ?
                  ????3. Application Software Utilization Report
?
                  ????4. Listing of User Accounts Not Initialized by the FA
            ? ????5. ISM Network Response Times
?
?
           ? ????6. Listing of ISM Functional Administrators
                 ????7. Sun690 DASD Utilization Reports
?
?
            ????4. View Current Baseline Software Versions
?
            ? ????1. Application Software
                  ????2. Executive Software
?
            ????5. View Testing Schedule
            ????6. View Software Fielding Schedule
            ????7. View ISM Points of Contact
            ????8. View News Bulletin Board
????7. PERSLOC Initialization/Administration Menu
?
     ????1. Security Administration Menu
?
          ????1. Add/Change PERSLOC User
            ????2. Delete PERSLOC User
?
            ????3. Add Alternate ISM Administrator
?
     ????2. Customize PERSLOC Data Menu
      ????3. Set-up Installation Specific Menu
          ????1. Add/Change Menu Entries
?
          ????2. Delete Menu Entries
     ?
?
      ?
            ?????. Add/Change Address Record Write Permissions
            ????4. Delete Address Record Write Permissions
```

PERSLOC Hierarchy Diagram – Continued.

Menu Name or Screen

7 ? ????4. Peripheral Administration Menu ? ????1. Add/Change Application Printers ????2. Delete Application Printers ? ????5. Ad Hoc Query Administration Menu ????1. Select Elements to Show ????2. Add/Change Element Comments ? ????5. Local Unit Maintenance ? ????1. Add/Change Local Unit ? ????2. Delete Local Unit ????8. Installation-Specific Applications Menu ????9. View Documentation/Regulations Menu ????1. View Governing Regulation (Primary) ????2. View End User Manual ????3. View Implementation Procedures ????4. View Maintenance Manual ????5. View ISMSIS ????6. View Configuration Control Manual ?????. View Functional Description ????99. Return to Master Menu

PERSLOC Hierarchy Diagram.

11 PERSLOC DATABASE SCHEMA AND ATTRIBUTES

```
{ DATABASE post delimiter | }
grant dba to oracle;
grant dba to post;
grant dba to pers2;
grant resource to pers3;
grant resource to pers4;
{ TABLE "post".security row size = 118 number of columns = 8 index size = 117 }
create table "post".security
   logname ......char(14),
   user_id .....not null,
   item......char(60),
   mask ......char(1).
   password ......char(14),
   flag.....char(1),
   entyid ......char(14),
   entydate.....char(10)
revoke all on "post".security from "public";
create index "post".yy1 on "post".security (logname,item);
{ TABLE "post".printer row size = 119 number of columns = 5 index size = 28 }
create table "post".printer
   device name ......char(15),
   description ......char(60),
   printer_class .....char(20),
   entyid ......char(14),
   entydate......char(10)
revoke all on "post".printer from "public";
create unique index "post".prnabc on "post".printer (device_name);
{ TABLE "post".menu_tbl row size = 140 number of columns = 2 index size = 0 }
create table "post".menu_tbl
   command line......char(70).....not null
revoke all on "post".menu_tbl from "public";
{ TABLE "post".demobloc row size = 479 number of columns = 18 index size = 51 }
create table "post".demobloc
   commander.....char(27),
   nco_ic .....char(27),
   ph_nco_ic .....char(20),
   dptdat.....char(10),
   arvdat.....char(10),
   depaddrlin1.....char(60),
   depaddrlin2.....char(33),
   depzipcd ......char(9),
   billet......char(50),
   escort ......char(27),
   ph_escort ......char(20),
   escaddrlin1.....char(60),
   escaddrlin2.....char(33),
   esczipcd.....char(9),
   entyid .....char(14),
```

```
entydate.....char(10)
revoke all on "post".demobloc from "public";
create unique index "post".postunit on "post".demobloc (unit);
{ TABLE "post".printer_default row size = 59 number of columns = 4 index size = 0 }
create table "post".printer_default
   username ......char(14).....not null,
   printer_class ......char(20).....not null,
   printer_name ......char(15).....not null,
   form.....char(10)
revoke all on "post".printer_default from "public";
{ TABLE "post".locator_tbl row size = 665 number of columns = 28 index size = 66 }
create table "post".locator_tbl
   fullname ......char(27),
   ssn ......char(9) .....not null,
   rank......char(7),
   boxno ......char(5).
   neworg ......char(55),
   prvcyact......char(1),
   date1.....char(10),
   oldaddrlin1.....char(60).
   oldaddrlin2.....char(33),
   oldzipcd .....char(9),
   newaddrlin1.....char(60),
   newaddrlin2.....char(33),
   newzipcd.....char(9),
   dptdat.....char(10),
   arvdat......char(10),
   offaddrlin1.....char(60),
   offaddrlin2.....char(33),
   offzipcd......char(9),
   rmks1......char(65),
   rmks2.....char(65),
   hqissorder.....char(41),
   orderno ......char(7),
   orderdat ......char(10).
   entyid ......char(14),
   entydate.....char(10),
   status ......char(1),
   period.....char(2).
   cutoff......char(10)
revoke all on "post".locator_tbl from "public";
create unique index "post".ix108_2 on "post".locator_tbl (ssn);
create index "post".i_loc_1 on "post".locator_tbl (fullname);
{ TABLE "post".max_id row size = 22 number of columns = 2 index size = 33 }
create table "post".max_id
   tabname ......char(18).....not null,
   maxid .....integer
   );
revoke all on "post".max_id from "public";
create unique index "post".ix14_1 on "post".max_id (tabname);
{ TABLE "post".adhoc_svdet row size = 122 number of columns = 8 index size = 12 }
create table "post".adhoc_svdet
   query_id .....not null,
```

```
data_text ......char(60),
   printorder.....integer,
   sort_direct.....char(4),
   condition ......char(11),
   value......char(32),
   and_or.....char(3)
   );
revoke all on "post".adhoc_svdet from "public";
create index "post".ix115_1 on "post".adhoc_svdet (query_id);
{ TABLE "post".adhoc_svqry row size = 208 number of columns = 9 index size = 109 }
create table "post".adhoc_svqry
   user_id .....char(8),
   query_name ......char(60).....not null,
   query_id .....integer,
   save date......char(10),
   comment1......char(60),
   comment2......char(60),
   sel_type.....integer,
   adv_query ......char(1),
   show_to_all .....char(1)
   );
revoke all on "post".adhoc_svqry from "public";
create unique index "post".adhoc_svidx on "post".adhoc_svqry (query_name,user_id,show_to_all);
{ TABLE "post".adhoc_tbl row size = 192 number of columns = 13 index size = 21 }
create table "post".adhoc_tbl
   adhoc_id.....not null,
   owner.....char(8),
   table_name ......char(18),
   col_name .....char(18),
   col_length smallint,
   col_type smallint,
   has_nulls .....char(1),
   dbpath.....char(60),
   alias ......char(20),
   show.....char(1),
   key.....char(1),
   master......char(1),
   comment1.....char(50)
   );
revoke all on "post".adhoc_tbl from "public";
create unique index "post".ix15_1 on "post".adhoc_tbl (adhoc_id);
{ TABLE "post".ecps_tbl row size = 2144 number of columns = 22 index size = 0 }
create table "post".ecps_tbl
   origin ......char(13),
   rept_type ......char(14),
   send_to.....char(28),
   attn ......char(26),
   sent_from.....char(25),
   sent_from2 ......char(25),
   poc......char(20),
   phone ......char(13),
   title.....char(20),
   priority ......char(9),
   app_ver.....char(20),
   baseline......char(20),
   prob_date .....char(20),
   prog_id .....char(66),
   prob title ......char(66).
```

```
prob_descr.....char(600),
    effect ......char(120),
    rec_sol.....char(120),
    remarks......char(900),
    user_id ......char(8).....not null,
    submit ......char(1).....not null
revoke all on "post".ecps_tbl from "public";
grant all on "post".security to "public" as "post";
grant all on "post".printer to "public" as "post";
grant all on "post".menu_tbl to "public" as "post";
grant all on "post".demobloc to "public" as "post";
grant all on "post".printer default to "public" as "post";
grant all on "post".locator_tbl to "public" as "post";
grant all on "post".max_id to "public" as "post";
grant all on "post".adhoc_svdet to "public" as "post";
grant all on "post".adhoc_svqry to "public" as "post";
grant all on "post".adhoc_tbl to "public" as "post";
grant all on "post".ecps_tbl to "public" as "post";
create synonym "generic".printer_default for "post".printer_default;
create synonym "generic".printer for "post".printer;
create synonym "generic".max_id for "post".max_id;
create synonym "GENERIC".max_id for "post".max_id;
create synonym "generic".adhoc_svdet for "post".adhoc_svdet;
create synonym "GENERIC".adhoc_svdet for "post".adhoc_svdet;
create synonym "generic".adhoc_tbl for "post".adhoc_tbl;
create synonym "GENERIC".adhoc_tbl for "post".adhoc_tbl;
create synonym "generic".adhoc_svqry for "post".adhoc_svqry;
create synonym "GENERIC".adhoc_svqry for "post".adhoc_svqry;
create synonym "generic".ecps_tbl for "post".ecps_tbl;
create synonym "post".individual for ilidb:"oracle".individual;
create synonym "post".mil_pers for ilidb:"oracle".mil_pers;
create synonym "post".unit for ilidb: "oracle".unit;
create synonym "post".unit_phone for ilidb:"oracle".unit_phone;
create synonym "post".civilian for ilidb: "oracle".civilian;
create synonym"post".cmsnd_occ_spec for ilidb:"oracle".cmsnd_occ_spec;
create synonym "post".cmsnd_off for ilidb:"oracle".cmsnd_off;
create synonym "post".enl occ spec for ilidb: "oracle".enl occ spec;
create synonym "post".enlisted for ilidb:"oracle".enlisted;
create synonym "post".warr_off for ilidb:"oracle".warr_off;
create synonym "post".wo_occ_spec for ilidb:"oracle".wo_occ_spec;
create synonym "post".ind address for ilidb: "oracle".ind address;
```

12 DATA DICTIONARY

Explanation of Report Format

NOTE: All information in this report, except RANGE, REQ and DESCRIPTION, is derived from the database schema.

MNEMONIC:.....The first line in each grouping consists of the database name followed by the table name. Subsequent lines consist of data elements listed within that table in the order they occur in the schema.

TYP: Type of data element:

B Bit String or Binary Data

C Character
D Decimal
F Floating Point
I Integer
S Small Integer

LEN: Length of element (bytes)

NUL: NULLs allowed:

field may have a NULL value
 N field must have a non NULL value

REQ: Indicates whether the value in a field is required in order to add the record:

value is not required

C value is required according to conditions stated in DESCRIPTION

R value is required

KEY: Type of key:

D element is indexed with duplicates allowed

U record is uniquely identified by a key (Components of the key are identified below by

number).

LVL: This identifies the order of the components in the index: Range is 1 (highest level order) thru 16

(lowest level order)

RANGE: Range of allowed values of data element. This information should be derived from the Functional Description.

MNEMONIC	ТҮР	LEN	NUL	REQ	KEY	LVL	RANGE	DESCRIPTION	
adhoc_svdet									
query_id	I	4	N	R	D		Numeric	Query number located in adhoc_svqry	
data_type	I	4					Numeric	Indicates placement in the SQL statement. (See notes)	
Notes:- 1=COLUMNS	, 2=F	ROM,	3= W	HERI	Ε, 4=	SORT	, 5= USER_WHER	RE, 99= advanced query.	
data_text	С	60					Free form or alias	Either the Basic Query fields or the Advanced Query Line	
printorder	I	4					Numeric	Queue order for printing	
sort_direct	С	4					ASC or DESC	Sort direction; how sort is listed - ASC= ascending DESC= descending	
condition	С	11					Relational operator	Operators available: =, <>, >=, <=, <, >, LIKE, NOT LIKE	
value	С	32					Free form	Value used to compare in where clause	
and_or	С	3					AND or OR	Where clause statement connector	
adhoc_svqry									
user_id	С	8			U	2	Free form	User identification; login name	
query_name	C	30			U	1	Free form	Name of saved query	
query_id	I	4					Numeric.	Query identification; unique I.D. number	
save_date	С	8					YYYYMMDD	Date that query was made	
comment1	С	60					Alphanumeric.	Comment 1 associated with the query.	
comment2	С	60					Alphanumeric.	Comment 2 associated with the query.	
sel_type	I	4					1, 2, or 3	Selection Type. 1=SELECT ALL, 2=SELECT UNIQUE, 3="SELECT COUNT"	
adv_query	С	1					Y or N.	Advanced Query.	
show_to_all	С	1			U	3	Y or N.	Show indicator.	
adhoc_tbl									
adhoc_id	С	10	N	R	U	*	Alphanumeric.	Ad Hoc id number	
owner	С	8					Alphanumeric	database owner	
table_name	С	18					Alphanumeric	Table Name	
col_name	С	18					Alphanumeric	Column Name	
col_length	I	2					Numeric	Column Length	
col_type	I	2					Numeric	Column Type	
has_nulls	C	1					Alphanumeric	Key field indicating, if null values are allowed.	
dbpath	С	60					Alphanumeric	Database path; full column name example: "owner".table.column	
alias	С	20					Alphanumeric	Alias name	
show	C	1					Alphanumeric	Show indicator	
key	С	1					Alphanumeric	Key field indicator code	
master	C	1					Alphanumeric	Master indicator code	
comment1	C	50					Alphanumeric	Comment 1	

MNEMONIC	ТҮР	LEN	NUL	REQ	KEY	LVL	RANGE	DESCRIPTION
civilian								
ind_ssn	С	9	N	-	-	-	Alphanumeric	Individual SSN
civ_pay_plan_cd	С	2	-	-	-	- 1	Alphanumeric	Civilian pay plan code
civ_py_gr_lvl_nr	С	2	-	-	-	-	Alphanumeric	Civilian pay grade level number
civ_rt_sc_dt	С	8	-	-	-	-	YYYYMMDD	Civilian return service date
civ_occ_ser_nr	С	5	-	-	_	-	Alphanumeric	Civilian occupation service number
civ_empl_step_nr	С	2	-	-	-	-	Alphanumeric	Civilian employee step number
civ_rt_prg_cd	С	1	-	-	-	-	Alphanumeric	Civilian return program code
civ_mil_rt_cd	С	1	-	-	-	-	Alphanumeric	Civilian military return code
cmsnd_occ_spec								
ind_ssn	С	9	N	3			Alphanumeric	Individual SSN
occ_spc_desig_cd	С	1	N	3	-	-	Alphanumeric	Occupation specialty designator code
cmsnd_off_aoc_id	С	3	-	-	-	-	Alphanumeric	Commissioned officer AOC id
com_off_skill_cd	С	2	-	-	-	-	Alphanumeric	Commissioned officer skill code
cmsnd_off		ı						
ind_ssn	С	9	N	4			Alphanumeric	Individual SSN
co_cr_mgmt_cntl_	С	2	-	-	-	-	Alphanumeric	Commissioned officer carrier management control code
off_esa_dt	С	8	-	-	-	-	YYYYMMDD	Officer ESA date
demodloc								
unit	С	30	N	-	-		Free Form	Unit Name
commande	С	27	-	-	-		Free Form	Unit Commander
nco_ic	С	27	-	-	-		Free Form	NCO In Charge
loc_nco_ic	С	30	-	-	-		Free Form	NCO Location
ph_nco_ic	С	20	-	-	-		Free Form	NCO IC Office Phone
dptdat	С	10	-	-	-		yyyy/mm/dd	Installation Departure Date
arvdat	С	10	-	-	-		yyyy/mm/dd	Installation Arrival Date
depaddrlin1	С	60	-	-	-		Free Form	Depart Address Line 1
depaddrlin2	С	33	-	-	-		Free Form	Depart Address Line 2
depzipcd	С	9	-	-	-		Text Number	Depart Zip Code
billet	С	50	-	-	-		Free Form	Host Unit or Activity
escort	С	27	-	-	-		Free Form	Installation Escort Name
ph_escort	С	20	-	-	-		Free Form	Escort Phone
escaddrlin1	С	60	-	-	-		Free Form	Escort Address Line 1
escaddrlin2	С	33	-	-	-		Free Form	Escort Address Line 2
esczipcd	С	9	-	-	-		Text Number Escort Zip Code	
entyid	С	14	-	-	-		Free Form Entry ID	
entydate	С	10	-	-			yyyy/mm/dd	Entry Date
ecps_tbl								

MNEMONIC	ТҮР	LEN	NUL	REQ	KEY	LVL	RANGE	DESCRIPTION	
origin	С	13	Y				Alphanumeric, cannot be blank	Originator Number	
rept_type	С	14	N				Alphanumeric	Report Type	
send_to	С	28	Y				Alphanumeric	Send to Address	
sent_from	С	25	Y				Alphanumeric	Sent from Address	
attn	С	26	Y				Alphanumeric	Attention Line	
sent_from2	С	25	Y				Alphanumeric	Sent from Address Line 2	
poc	С	20	Y				Alphanumeric	Point of Contact	
phone	С	13	Y				Alphanumeric	Telephone Number	
title	С	20	Y				Alphanumeric	Title of Problem	
priority	С	9	Y				Alphanumeric, cannot be blank	Priority of Problem	
app_ver	С	20	Y				Alphanumeric	Application Version Number	
baseline	С	20	Y				Alphanumeric	Base Line Number	
prob_date	С	10	N				Alphanumeric	Problem Report Date	
prog_id	С	66	Y				Alphanumeric	Program Identification	
prob_title	С	66	Y				Alphanumeric	Problem Title	
prob_descr	С	60 0	Y				Alphanumeric	Problem Description	
effect	С	12 0	Y				Alphanumeric	Effect to User	
rec_sol	С	12 0	Y				Alphanumeric	Recommended Solution	
remarks	С	90 0	Y				Alphanumeric	Remarks	
ecps_date	С	10	N				YYYYMMDD	ECP-S date	
user_id	С	8	N				Alphanumeric	User Identification	
submit	С	1	N				Y or N, cannot be blank	Submitted for remedy	
enl_occ_spec									
ind_ssn	С	9	N	3	-		Alphanumeric	Individual SSN	
occ_spc_desig_cd	С	1	N	3	-	-	Alphanumeric	Occupation specialty designator code	
enl_mos_id	С	3	1	ı	-	1	Alphanumeric	Enlisted MOS id	
enl_skl_lvl_nr	С	1	1	1	-	-	Alphanumeric	Enlisted Skill Level Number	
enl_sqi_cd	С	1	1	-	-	-	Alphanumeric	Enlisted SQI code	
enl_asi_cd	С	2	-	-	_	-	Alphanumeric	Enlisted ASI code	
enlisted									
ind_ssn	С	9	N	2			Alphanumeric	Individual SSN	
mil_ets_dt	С	8	-	-	-	-	YYYYMMDD	Military Expiration Term of Service (ETS) date	
ind_address									
ind_ssn	С	9	N	2			Alphanumeric	Individual SSN	
ind_addr_type_cd	С	1	N	1	-	-	Alphanumeric	Individual address type code	

MNEMONIC	ТҮР	LEN	NUL	REQ	KEY	LVL	RANGE	DESCRIPTION
ind_addr_city_nm	С	17	-	-	-	-	Alphabetic	Individual address city name
ind_addr_ctry_cd	С	2	-	1	-	-	Alphanumeric	Individual address country code
ind_addr_forn_nr	С	10	1	1	-	-	Alphanumeric	Individual address foreign number
ind_addr_gtwy_ab	С	-	1	1	-		Alphanumeric	Individual address gateway abbreviation
ind_adr_state_ab	С	2	1	1	-	-	Alphanumeric	Individual address state abbreviation
ind_addr_zip_cd	С	9	1	1	-	-	Alphanumeric	Individual address ZIP Code
ind_addr_loc_tx	C	60	-	-	-	-	Free form	Individual address location text
individual								
ind_ssn	C	9	N	4			Alphanumeric	Individual SSN
indiv_name	С	27	1	1	-	-	Alphabetic	Individual name
un_svc_dsg_cd	С	1	1	1	-	-	Alphanumeric	Unit service designator code
un_porg_dsg_id	С	3	1	1	-	-	Alphanumeric	Unit parent organization designator id
un_descr_dsg_id	С	2	1	1	-	-	Alphanumeric	Unit descriptive designator id
org_id	С	6	1	1	-	-	Alphanumeric	Organization id
birth_dt	С	8	1	1	-	-	YYYYMMDD	Birth date
ind_usctz_sta_cd	С	1	1	1	-	-	Alphanumeric	Individual US citizenship status code
ind_hiv_tst_ymdt	С	6	-	-	-	-	YYMMDD	Individual HIV test year-month-date
ind_race_pop_cd	С	1	-	-	-	-	Alphanumeric	Individual race population code
ind_sex_code	С	1	-	-	-	-	M or F	Individual gender code
civ_educ_lv_cd	С	1	1	1	-	-	Alphanumeric	Civilian education level code
ind_martl_st_cd	С	1	1	1	-	-	Alphanumeric	Individual marital status code
pri_lang_cd	С	2	1	1	-	-	Alphanumeric	Primary language code
sec_lang_cd	C	2	-	-	-	-	Alphanumeric	Secondary language code
ind_vssn_cd	C	1	-	-	-	-	Alphanumeric	Individual SSN verification code
pers_si_comp_cd	C	1	-	-	-	-	Alphanumeric	Personal security investigation completion code
pers_si_comp_dt	С	8	1	-	-	-	YYYYMMDD	Personal security investigation completion date
pers_si_init_cd	С	1	1	1	-	-	Alphanumeric	Personal security investigation initiated code
pers_si_init_dt	C	8	-	-	-	-	YYYYMMDD	Personal security investigation initiated date
ind_birth_sta_cd	C	2	-	-	-	-	Alphabetic	Individual birth state code
ind_brth_city_nm	C	17	-	-	-	-	Alphanumeric Individual birth city name	
ind_brth_ctry_cd	С	2	-	1	-	-	Alphabetic Individual birth country code	
ind_ctzp_ctry_cd	С	2	-	-	-	-	Alphanumeric Individual citizenship country code	
ind_ctzsp_org_cd	С	1			-	-	Alphanumeric Individual citizenship organization code	
ind_ethnic_cd	С	1	-	-	-	-	Alphanumeric	Individual ethnic code
locator_tbl								
fullname	С	27	-	-	-		Last First I.	Full Name
ssn	С	9	N	-			Free Form	Social Security Number
rank	C	7	-	-	-		Free Form	Rank

MNEMONIC	ТҮР	LEN	NUL	REQ	KEY	LVL	RANGE	DESCRIPTION	
boxno	С	5	-	-	-		Free Form	Box Number	
neworg	С	55	-	-	-		Free Form	New Organization	
prvcyact	С	1	-	-	-		Y, N, or Blank	Privacy Act (Initialized "N")	
date1	С	10	-	-	-		yyyy/mm/dd	Purge Date	
oldaddrlin1	С	60	-	-	-		Free Form	Old Address Line 1	
oldaddrlin2	С	33	-	-	-		Free Form	Old Address Line 2	
oldzipcd	С	9	-	-	-		Text Number	Old Zip Code	
newaddrlin1	С	60	-	-	-		Free Form	New Address Line 1	
newaddrlin2	С	33	-	-	-		Free Form	New Address Line 2	
newzipcd	С	9	-	-	-		Text Number	New Zip Code	
dptdat	С	10	-	-	-		yyyy/mm/dd	Depart Date	
arvdat	С	10	-	-	-		yyyy/mm/dd	Arrival Date	
offaddrlin1	С	60	-	-	-		Free Form	Office Address Line 1	
offaddrlin2	С	33	-	-	-		Free Form	Office Address Line 2	
offzipcd	С	9	-	-	-		Text Number	Office Zip Code	
rmks1	С	65	-	1	1		Free Form	Remarks Line 1	
rmks2	С	65	-	1	1		Free Form	Remarks Line 2	
hqissorder	С	41	1	1	1		Free Form	HQ Issue Order	
orderno	С	7	1	1	1		Alphanumeric	Order Number	
orderdat	С	10	1	1	1		yyyy/mm/dd	Order Date	
entyid	C	14	-	-	-		Free Form	Entry ID	
entydate	С	10	-	-	-		yyyy/mm/dd	Entry Date	
status	С	1	-	-	-		P, S or T	Status	
period	C	2	-	-	-		6 or 12	Period	
cutoff	С	10	-	-	-		yyyy/mm/dd	Cutoff	
max_id									
tabname	С	18	N	-	-		Alphanumeric	legal table name	
maxid	I	4	N	-	-		Number	last row number of table	
menu_tbl									
menu_item	С	70	N	-	-		Free Form	description of what command does	
command_line	С	70	N	-	-		Free Form	UNIX system command	
mil_pers									
ind_ssn	С	9	N	4	-	-	Alphanumeric	Individual SSN	
ar_ml_rnk_eff_dt	С	8	-	-	-	-	YYYYMMDD	Army military rank effective date	
army_mil_rank_ab	С	3	-	-	-	-	Alphanumeric	Army military rank abbreviation	
army_mil_rank_cd	C	2	-	-	-	-	Alphanumeric Army military rank code		
army_mil_rank_dt	C	8	-	-	-	-	YYYYMMDD Army military rank date		
asg_arr_dt	С	8	-	-			YYYYMMDD Assignment arrival date		
asg_deros_dt	С	8	-	-		-	YYYYMMDD		
asg_dprt_dt	С	8	-	-	-	-	YYYYMMDD	Assignment departure date	

MNEMONIC	ТҮР	LEN	NUL	REQ	KEY	LVL	RANGE	DESCRIPTION	
asg_dlos_dt	С	8	-	_	_	-	YYYYMMDD	Assignment dlos date	
asg_proj_arr_dt	С	8	-	-	-	-	YYYYMMDD	Assignment project arrival date	
asg_dros_dt	С	8	-	1	1	-	YYYYMMDD	Assignment departure overseas date	
basd	С	8	-	-	-	-	YYYYMMDD	Military basic active date	
bped	С	8	-	-	-	-	YYYYMMDD	Basic pay entry date	
mil_ad_ent_cy_nm	С	17	1	-	-	1	Alphabetic	Military active duty entry city name	
mil_ad_ent_st_cd	С	2	-	-	-	-	Alphanumeric	Military active duty entry state code	
mil_dy_stat_ab	С	3	-	-	-	-	Alphanumeric	Military duty state abbreviation	
mil_ead_dt	С	8	-	-	-	-	YYYYMMDD	Military entry active duty date	
mil_educ_lvl_cd	С	1	-	-	-	-	Alphanumeric	Military education level code	
mil_pers_clas_cd	С	1	-	-	-	-	Alphanumeric	Military personnel class code	
mil_phypr_dylm_c d	С	1	-	-	-	-	Alphanumeric	Military physical profile duty limitation code	
mil_sqt_score_qy	С	3	1	1	1	1	Alphanumeric	Military skill qualification test score quantity	
mil_svc_comp_cd	С	1	-	-	-	-	Alphanumeric	Military service completion date	
mil_pulhes	С	6	1	1	1	1	Alphanumeric	Military PULHES code	
prom_indic_cd	С	1	1	1	1	1	Alphanumeric	Promotion indicator code	
mil_rec_stat_cd	С	1	1	1	1	1	Alphanumeric	Military recruitment status code	
mil_attached_cd	С	1	1	1	1	1	Alphanumeric	Military attached indicator code	
mil_asg_posn_nr	С	4	1	1	1		Alphanumeric	Military assigned position indicator	
mil_delay_sep_cd	С	1	1	1	1	1	Alphanumeric	Military delay separator code	
mil_svc_agree_cd	С	1	1	1	1	1	Alphanumeric	Military service agreement code	
mil_photo_sus_dt	C	6	-	-	-	-	YYMMDD	Military photo suspense date	
mil_last_pcs_dt	C	6	1	-	-	1	YYMMDD	Military date of last permanent change of station date	
afrm_award_el_dt	С	6	-	-	-	-	YYMMDD	Date eligible for Armed Forces Reserve Medal award date	
ind_veap_stat_cd	С	1	-				Alphanumeric	Individual veap status code	
printer									
device_name	С	15	-	-	-	-	submenu only	name of printer	
description	С	60	-	-	-	-	Free Form	description of the available printer	
printer_class	С	20	-	-	-	-	submenu only	printer class option	
entyid	С	14	-	-	-		Alphanumeric	id of person entering data	
entydate	С	10	-	-	-		MM/DD/YYYY		
printer_default									
username	С	14	N	-	-		login name valid user name		
printer_class	C	20	N	-	-		Free Form printer class options		
printer_name	С	15	N	-	-		Alphanumeric printer name		
form	С	10	-	-	-		form name associated form name		
security									
logname	С	14	-	1	-		Login	The login name of the user	

MNEMONIC	ТҮР	LEN	NUL	REQ	KEY	LVL	RANGE	DESCRIPTION
user_id	I	4	N	-	-		Number	field 3 of /etc/passwd
item	С	60	-	1	-		Field Label	only the field labels found on the security form can be saved
Mask	С	1	-	-	-		Y or N	permission indicator
Password	С	14	-	-	-		Encryption	encrypted password
Flag	С	1	-	-	-		not used	not used
Entyid	С	14	-	-	-		not used	not used
Entydate	С	10	-	-	-		not used	not used
Unit								
un_svc_dsg_cd	С	1	N	3	-	-	Alphanumeric	Unit service designator code
un_porg_dsg_id	С	3	N	3	-	-	Alphanumeric	Unit parent organization designator id
un_descr_dsg_id	С	2	N	3	-	-	Alphanumeric	Unit descriptive designator id
org_id	С	6	-	3	-	-	Alphanumeric	Organization id
un_office_sym	С	16	-	-	-	-	Alphanumeric	Unit office symbol
unit_name	С	30	-	-	-	-	Free form	Unit name
stru_command_cd	С	2	-	-	-	-	Alphanumeric	Structured command code
org_addr_city_nm	С	17	-	-	-	-	Alphabetic	Organization address city name
org_addr_ctry_cd	С	2	-	-	-	-	Alphanumeric	Organization address country code
org_addr_forn_nr	С	9	-	-	-	-	Alphanumeric	Organization address foreign number
org_addr_gtwy_ab	С	3	-	-	-	-	Alphanumeric	Organization address gateway abbreviation
org_adr_state_ab	С	2	-	-	-	-	Alphanumeric	Original address state abbreviation
org_addr_zip_cd	С	9	-	-	-	-	Alphanumeric	Organization address zip code
org_addr_loc_tx	С	60	-	-	-	-	Free form	Organization address location text
unit_phone								
un_svc_dsg_cd	С	1	N	3	-		Alphanumeric	Unit service designator code
un_porg_dsg_id	С	3	N	3	-		Alphanumeric	Unit parent organization designator id
un_descr_dsg_id	С	2	N	3	-		Alphanumeric	Unit descriptive designator id
org_tel_type_cd	С	1	N	3			Alphanumeric	Organization telephone type code
inf_telnr_pur_cd	С	1	N	3	-	-	Alphanumeric	Information telephone purpose code
inf_tele_sys_cd	С	1	N	3	-	-	Alphanumeric	Information telephone system code
org_id	С	6	-	3	-	-	Alphanumeric	Organization id
inf_telephone_nr	С	28				-	Alphanumeric	Information telephone number
warr_off								
ind_ssn	С	9	N	4	-	-	Alphanumeric	Individual SSN
wo_mgmt_br_cd	С	2	-	-	-	-	Alphanumeric	Warrant officer management branch code
off_esa_dt	С	8	-	-	-	-	YYYYMMDD	Officer service agreement expiration date
wo_occ_spec								
ind_ssn	С	9	N	3	-	-	Alphanumeric	Individual SSN
occ_spc_desig_cd	С	1	N	3	-	-	Alphanumeric	Occupational specialty designator code
wo_mos_id	С	4	-	-	-	-	Alphanumeric	Warrant Officer MOS id

MNEMONIC	ТҮР	LEN	NUL	REQ	KEY	LVL	RANGE	DESCRIPTION
wo_sqi_cd	С	1	-	-	-	-	Alphanumeric	Warrant Officer SQI code
wo_asi_cd	С	2	-	-	-	-	Alphanumeric	Warrant Officer ASI code

13 CROSS REFERENCE TABLE

Explanation of Report Format

NOTE: All information in this report, except RANGE, REQ and DESCRIPTION, is derived from the

appropriate schemas.

MNEMONIC:...........Column name of data element. Data elements are listed here in alphabetical order

by mnemonic name, table name and database name.

TYP: Type of Data Element

> В Bit String or Binary Data

C Character D Decimal F Floating Point Ι Integer S Small Integer

LEN: Length of Element (Characters)

NUL: NULLs Allowed:

> field may have a NULL value field must have a non NULL value

IDX: The highest applicable of the following is shown.

Element is not indexed

1 Element is a component of an index key with duplicates allowed

2 Element is an index key with duplicates allowed

3 Element is a component of an unique index key

Element is a unique index key

a '-' if either the element name and database of this element are the same as the previous element or

if the database and table of the element are the same as the previous element.

suppressed and replaced with a '-' if the table and database of this element is the same as the

previous element.

RANGE: Range of allowed values of data element. This information should be derived from the Functional Description.

MNEMONIC	ТҮР	LEN	NUL	IDX	DB	TABLE	RANGE	DESCRIPTION
adhoc_id	С	10	N	-	post	adhoc_tbl	Text Number	adhoc id number
adv_query	С	1	-	1	post	adhoc_svqry	Y or N	Y = advanced query, N = basic query
afrm_award_el_dt	С	6	-		ilidb	mil_pers	YYMMDD	Date eligible for Armed Forces Reserve Medal
alias	С	30	-	-	post	adhoc_tbl	Free Form	alias name
and_or	С	3	-	-	post	adhoc_svdet	AND or OR	where clause statement connector
app_ver	С	20			post	ecps_tbl	alphanumeric	Application version number
ar_ml_rnk_eff_dt	С	8	-		ilidb	mil_pers	YYYYMMDD	Army Military Rank effective date
army_mil_rank_ab	С	3	-	-	-		Alphanumeric	Army Military Rank abbrevia- tion
army_mil_rank_cd	С	2	-		ilidb	mil_pers	alphanumeric	Army Military Rank Code
army_mil_rank_dt	С	8	-		ilidb	mil_pers	YYYYMMDD	Army Military Rank Date
arvdat	С	10	-	-	post	demobloc	yyyy/mm/dd	Installation Arrival Date
arvdat	С	10	-	-	-	locator_tbl	yyyy/mm/dd	Arrival Date
asg_arr_dt	С	8		-	1		YYYYMMDD	Assignment Arrival Date
asg_deros_dt	С	8	-	-	-		YYYYMMDD	Overseas Assignment deros date
asg_dlos_dt	С	8	-	-			YYYYMMDD	Anticipated Date of Loss
asg_dprt_dt	С	8	-	-	1		YYYYMMDD	Assignment Departure date
asg_dros_dt	С	8	-	-	1		YYYYMMDD	Overseas Assignment dros date
asg_proj_arr_dt	С	8	-	1	1		YYYYMMDD	Assignment Projected arrival date
attn	С	26	-		post	ecps_tbl	Alphanumeric	Attention
basd	С	8	-		ilidb	mil_pers	YYYYMMDD	Military Basic Active duty date
baseline	С	20			post	ecps_tbl	Alphanumeric	Base line
billet	С	50	-	1	post	demobloc	Free Form	Host Unit or Activity
birth_dt	С	8	-		ilidb	individual	YYYYMMDD	Birth Date
boxno	С	5	-	-	post	locator_tbl	Free Form	Box Number
bped	С	8	-	1	ilidb	mil_pers	YYYYMMDD	Basic Pay Entry Date
civ_educ_lv_cd	С	1	-		ilidb	individual	Alphanumeric	Civilian Education Level code
civ_empl_step_nr	С	2	-		ilidb	civilian	Alphanumeric	Civilian Employment step number
civ_mil_rt_cd	С	1	-				Alphanumeric	Civilian Military Return code
civ_occ_ser_nr	С	5	-	1	-		Alphanumeric	Civilian Occupational service number
civ_pay_plan_cd	С	2	-	-	-		Alphanumeric	Civilian Pay Plan code
civ_py_gr_lvl_nr	С	2	-	-	-		Alphanumeric	Civilian Pay Grade level number
civ_rt_prg_cd	С	1	-	-	ı		Alphanumeric	Civilian Return Program code
civ_rt_sc_dt	С	8		-	-		YYYYMMDD	Civilian Return to service date

MNEMONIC	ТҮР	LEN	NUL	IDV	DB	TABLE	RANGE	DESCRIPTION
cmsnd_off_aoc_id	С	3	NUL -	ШХ	ilidb	cmsnd_occ_spec	Alphanumeric	Commissioned Officer AOC id
co_cr_mgmt_cntl_	С	2	_		ilidb	cmsnd_off	Alphanumeric	Commissioned Officer career
cd cd		2			mao	emsna_on	ruphanameric	management control code
col_length	I	2	-	-	post	adhoc_tbl	Number	column length
col_name	С	18	-	-	-	-	Alphanumeric	legal column name
col_type	I	2	-	-	-		Number	0 = char and 2 = integer
com_off_skill_cd	С	2	-		ilidb	cmsnd_occ_spec	Alphanumeric	Commissioned Officer Skill Code
command_line	С	70	N	-	post	menu_tbl	Free Form	UNIX system command
commander	С	27	-	-	post	Demobloc	Free Form	Unit Commander
comment1	С	60	-	-	post	adhoc_svqry	Free Form	comments describing use
comment1	С	30	-	-	-	adhoc_tbl	Free Form	comments describing use
comment2	С	60	-	-	post	adhoc_svqry	Free Form	Comments describing use
condition	С	10	-	-	post	adhoc_svdet	Relational Operators	Operator available: <, >, LIKE, NOT LIKE =, <>, >=, <=,
cutoff	С	10	-	-	post	locator_tbl	yyyy/mm/dd	Cutoff
data_text	С	60	-	-	post	adhoc_svdet	Free Form or alias	text
data_type	I	4	-	-	-	-	Number	The following values indicate place ment in the SQL statement. (See notes)
date1	С	10	-	-	post	locator_tbl	yyyy/mm/dd	Purge Date
dbpath	С	60	-	-	post	adhoc_tbl	full col name	example: "owner".table.column
depaddrlin1	С	60	-	-	post	demobloc	Free Form	Depart Address Line 1
depaddrlin2	С	33	-	-	-	-	Free Form	Depart Address Line 2
depzipcd	С	9	-	-			Text Number	Depart Zip Code
description	С	60	-	-	post	printer	Free Form	description of the available printer
device_name	С	15	-	-	-	-	submenu only	name of printer
dptdat	С	10	-	-	post	demobloc	yyyy/mm/dd	Installation Departure Date
dptdat	С	10	-	-	-	locator_tbl	yyyy/mm/dd	Depart Date
ecps_date	C	10	-		post	ecps_tbl	YYYY/MM/DD	ECP-S date
effect	С	420	-	-	post	ecps_tbl	Alphanumeric	Effect on user
enl_asi_cd	С	2	-		ilidb	enl_occ_spec	Alphanumeric	Enlisted ASI code
enl_mos_id	С	3	-	-		enl_occ_spec	Alphanumeric	Enlisted MOS id
enl_skl_lvl_nr	С	1	-	-		enl_occ_spec	Alphanumeric	Enlisted Skill Level number
enl_sqi_cd	С	1	-	-		enl_occ_spec	alphanumeric	Enlisted SQI code
entydate	С	10	-	-	post	demobloc	yyyy/mm/dd	Entry Date
entydate	С	10	-	-	1	locator_tbl	yyyy/mm/dd	Entry Date
entydate	С	10		-	-	printer	MM/DD/YYYY	Entry date
entydate	С	10	-	-	1	security	not used	not used
entyid	C	14	-	-	post	demobloc	Free Form	Entry ID

MNEMONIC	TYP	LEN	NUL	IDX	DB	TABLE	RANGE	DESCRIPTION
entyid	С	14	-	-	-	locator_tbl	Free Form	Entry ID
entyid	С	14	-	-	-	printer	Alphanumeric	id of person entering data
entyid	С	14	-	-	-	security	not used	not used
escaddrlin1	С	60	-	-	post	demobloc	Free Form	Escort Address Line 1
escaddrlin2	C	33	-	-			Free Form	Escort Address Line 2
escort	С	27	-	-	-	-	Free Form	Installation Escort Name
esczipcd	C	9	-	-	-	-	Text Number	Escort Zip Code
flag	C	1	-	-	post	security	not used	not used
form	C	10	-	-		printer_default	form name	associated form name
fullname	C	27	-	-	post	locator_tbl	Last First I.	Full Name
hqissorder	C	41	-	-	-	-	Free Form	HQ Issue Order
ind_addr_city_nm	C	17	-		ilidb	ind_address	Alphanumeric	Individual Address City Name
ind_addr_ctry_cd	С	2	-		ilidb	ind_address	Alphanumeric	Individual Address Country code
ind_addr_forn_nr	С	10	-		ilidb	ind_address	Alphanumeric	Individual Address Foreign number
ind_addr_gtwy_ab	С	3	-		ilidb	ind_address	Alphanumeric	Ind. Address Gateway abbreviation
ind_addr_loc_tx	С	60	-		ilidb	ind_address	Free form	Individual Address Location text
ind_addr_type_cd	С	1	N		ilidb	ind_address	Alphanumeric	Individual Address Type code
ind_addr_zip_cd	С	9	-	-	-		Alphanumeric	Individual Address Zip Code
ind_adr_state_ab	С	2	-		ilidb	ind_address	Alphanumeric	Individual Address State abbreviation
ind_hiv_tst_ymdt	С	6	-		ilidb	individual	YYMMDD	Individual HIV Test Year-Month-Date
ind_martl_st_cd	С	1	-		ilidb	individual	Alphabetic	Individual Marital Status Code
ind_race_pop_cd	С	1	-		ilidb	individual	Alphanumeric	Individual Race Population code
ind_sex_code	С	1	-	-		individual	M or F	Individual Gender Code
ind_ssn	С	9	N	4	ilidb	civilian	Alphanumeric	Individual SSN
ind_ssn	С	9	N	3	-	cmsnd_occ_spec	Alphanumeric	Individual SSN
ind_ssn	С	9	N	4	-	cmsnd_off	Alphanumeric	Individual SSN
ind_ssn	С	9	N	3	ilidb	enl_occ_spec	Alphanumeric	Individual SSN
ind_ssn	С	9	N	4	_	enlisted	Alphanumeric	Individual SSN
ind_ssn	С	9	N	2		ind_address	Alphanumeric	Individual SSN
ind_ssn	С	9	N	4	-	individual	Alphanumeric	Individual SSN
ind_ssn	С	9	N	4	ilidb	mil_pers	Alphanumeric	Individual SSN
ind_ssn	С	9	N	4	ilidb	warr_off	Alphanumeric	Individual SSN
ind_ssn	С	9	N	3	11140	wo_occ_spec	Alphanumeric	Individual SSN
ind_usctz_sta_cd	С	1	-	3		individual	Alphanumeric	Individual US citizenship status code
ind_vssn_cd	С	1	-	_	-		alphanumeric	Individual SSN verified code

MNEMONIC	TYP	LEN	NUL	IDX	DB	TABLE	RANGE	DESCRIPTION
indiv_name	С	27	-	-		individual	Alphabetic	Individual Name
inf_tele_sys_cd	С	1	N	3	ilidb	unit_phone	Alphanumeric	Information telephone system code
inf_telephone_nr	C	28	-	-		unit_phone	Alphanumeric	Information Phone Number
inf_telnr_pur_cd	С	1	N	3	-	unit_phone	alphanumeric	Information Phone Number purpose code
item	С	60	-	1	post	security	Field Label	only the field labels found on the security form can be saved
loc_nco_ic	С	30	-	-	post	demobloc	Free Form	NCO Location
logname	C	14	-	1	post	security	login	The login name of the user
mask	C	1	-	-	-	-	Y or N	permission indicator
maxid	I	4	N	-	post	max_id	Number	last row number of table
menu_item	C	70	N	-	post	menu_tbl	Free Form	description of what command does
mil_ad_ent_cy_nm	С	17	-		ilidb	mil_pers	Alphanumeric	Military Active Duty entry city name
mil_ad_ent_st_cd	С	2	-	-	-		Alphabetic	Military Active Duty entry state code
mil_asg_posn_nr	С	4	-	-	-		Alphanumeric	Assigned Position Indicator number
mil_attached_cd	С	1	-		ilidb	mil_pers	Alphanumeric	Attached Indicator Code
mil_delay_sep_cd	С	1	-		ilidb	mil_pers	Alphanumeric	Delay in Separation Code
mil_dy_stat_ab	С	3	-	-	-		Alphanumeric	Military Duty Status abbrevia- tion
mil_ead_dt	С	8	-	-	-		YYYYMMDD	Military Entry Active duty date
mil_educ_lvl_cd	С	1	-	-	1		Alphanumeric	Military Education Level code
mil_ets_dt	C	8	-	-	ilidb	enlisted	YYYYMMDD	Mil. Expiration Term of service code
mil_last_pcs_dt	С	6	-	1			YYMMDD	Date of Last Permanent change of station date
mil_pers_clas_cd	С	1	-		ilidb	mil_pers	Alphanumeric	Military Personnel Class code
mil_photo_sus_dt	С	6	-	-	-		YYMMDD	Date of Last Photograph suspense date
mil_phypr_dylm_c	С	1	-	-	-		Alphanumeric	Military Physical profile duty limitation code
mil_pulhes	С	6	-		ilidb	mil_pers	Alphanumeric	Military PULHES Code
mil_rec_stat_cd	С	1	-	-	-		Alphanumeric	Record Status Code
mil_sqt_score_qy	С	3	-	-	-		Alphanumeric	Military SQT score quantity
mil_svc_agree_cd	С	1	-	-	-		Alphanumeric	Military Service agreement code
mil_svc_comp_cd	С	1	-	-	-		Alphanumeric	Military Service completion code
nco_ic	С	27	-	-	post	demobloc	Free Form	NCO In Charge
newaddrlin1	С	60	-	-	post	locator_tbl	Free Form	New Address Line 1
newaddrlin2	С	33	-	-	-	-	Free Form	New Address Line 2

MNEMONIC	ТҮР	LEN	NUL	IDX	DB	TABLE	RANGE	DESCRIPTION
neworg	С	55	-	-	-	-	Free Form	New Organization
newzipcd	С	9	-	-	-	-	Text Number	New Zip Code
occ_spc_desig_cd	С	1	N	3	ilidb	cmsnd_occ_spec	Alphanumeric	Occupation Specialty designator code
occ_spc_desig_cd	С	1	N	3	-	enl_occ_spec	Alphanumeric	Occupation Specialty designator code
occ_spc_desig_cd	С	1	N	3	1	wo_occ_spec	Alphanumeric	Occupation Specialty designator code
off_esa_dt	С	8	-		ilidb	cmsnd_off	YYYYMMDD	Officer Service entry active date
off_esa_dt	С	8	-	-		warr_off	YYYYMMDD	Officer Service entry active date
offaddrlin1	С	60	-	-	post	locator_tbl	Free Form	Office Address Line 1
offaddrlin2	С	33	-	-	-	-	Free Form	Office Address Line 2
offzipcd	С	9	-	-	-	-	Text Number	Office Zip Code
oldaddrlin1	C	60	-	-	-	-	Free Form	Old Address Line 1
oldaddrlin2	С	33	-	1	1		Free Form	Old Address Line 2
oldzipcd	С	9	-	-	-	-	Text Number	Old Zip Code
orderdat	С	10	-	-	-	-	yyyy/mm/dd	Order Date
orderno	С	7	-	-	-	-	Alphanumeric	Order Number
org_addr_city_nm	С	17	-		ilidb	unit	Alphabetic	Organization Address city name
org_addr_ctry_cd	С	2	-	-	-		Alphanumeric	Organization Address country code
org_addr_forn_nr	С	9	-	-	-		Alphanumeric	Organization Address foreign number
org_addr_gtwy_ab	С	3	-	-	-		Alphanumeric	Org. Address gateway abbre- viation
org_addr_loc_tx	С	60	-	-	-		Free form	Organization Address location text
org_addr_loc_tx	С	20	-	-		workcntr_gen_in f	Free form	Work Center Address location text
org_addr_zip_cd	С	9	-		ilidb	unit	Alphanumeric	Organization Address zip code
org_adr_state_ab	C	2	-	-	-		Alphanumeric	Org. Address state abbreviation
org_id	С	6	-	3	ilidb	individual	Alphanumeric	Organization ID
org_id	C	6	-	3	1	unit	Alphanumeric	Organization ID
org_id	С	6		3	-	unit_phone	Alphanumeric	Organization ID
org_tel_type_cd	С	1	N	3	-	-	Alphanumeric	Organization telephone type code
origin	C	12	-		post	ecps_tbl	Alphanumeric	Originator number
owner	С	8		-	post	adhoc_tbl	Alphanumeric	database owner
password	С	14	-	-	post	security	Encryption	encrypted password
period	С	2	-	-	post	locator_tbl	6 or 12	Period
pers_si_comp_cd	С	1	-	1	ilidb	individual	Alphanumeric	Personnel Security investigation completion code

MNEMONIC	ТҮР	LEN	NUL	IDX	DB	TABLE	RANGE	DESCRIPTION
pers_si_comp_dt	С	8	-	-	-	11222	YYYYMMDD	Personnel Security investiga- tion completion date
pers_si_init_cd	С	1	-	-	-		Alphanumeric	Personnel Security investigation initiation code
pers_si_init_dt	С	8	-	-	1		YYYYMMDD	Personnel Security in- vestigation initiation date
ph_escort	С	20	-	-	post	demobloc	Free Form	Escort Phone
ph_nco_ic	С	20	-	-	-	-	Free Form	NCO IC Office Phone
poc	С	20	-	-	post	ecps_tbl	Alphanumeric	Point of contact
phone	С	13	-	-	post	ecps_tbl	Alphanumeric	Telephone number
pri_lang_cd	С	2	-		ilidb	individual	Alphanumeric	Primary Language Code
printer_class	С	20	-	-	post	printer	submenu only	printer class option
printer_class	С	20	N	-	-	printer_default	Free Form	printer class option
printer_name	С	15	N	-	-	-	Alphanumeric	printer name
priority	C	9	N		post	ecps_tbl	Alphanumeric	Priority of the problem
prob_date	С	10	N		post	ecps_tbl	YYYY/MM/DD	problem date
prob_descr	С	960	N		post	ecps_tbl	Alphanumeric	problem description
prob_title	С	66	N		post	ecps_tbl	Alphanumeric	problem title
prog_id	C	66	Y		post	ecps_tbl	Alphanumeric	program identification
prom_indic_cd	С	1	-		ilidb	mil_pers	Alphanumeric	Promotion Indicator Code
prvcyact	С	1	-	-	post	locator_tbl	Y, N, or Priva- cy Act (Initial- ized "N")	Blank
query_id	I	4	N	-	post	adhoc_svdet	Number	query number located in adhoc_svqry
query_id	I	4	-	-	-	adhoc_svqry	Number	unique query id number
query_name	С	60	N	-	-	-	Free Form	name of saved query
rank	С	7	-	-	post	locator_tbl	Free Form	Rank
rec_sol	С	480	-		post	ecps_tbl	Free form	Recommended solution
remarks	С	900	-		post	ecps_tbl	Alphanumeric	Remarks Text
rept_type	С	14	-	-	post	ecps_tbl	Alphanumeric	Type of Report
rmks1	С	65	-	-	-	-	Free Form	Remarks Line 1
rmks2	С	65	-	-	-		Free Form	Remarks Line 2
save_date	С	10	-	-	post	adhoc_svqry	YYYY/MM/DD	day when query was made
sec_lang_cd	С	2	-		ilidb	individual	Alphanumeric	Secondary Language Code
sel_type	I	4	-	-	post	adhoc_svqry	1, 2 or 3	1= "SELECT ALL", 2= "SELECT UNIQUE", 3= "SELECT COUNT"
send_to	С	28	-		post	ecps_tbl	Alphanumeric	Send to Address
sent_from	С	25	-		post	ecps_tbl	Alphanumeric	Sent to whom
sent_from2	С	25	-		post	ecps_tbl	Alphanumeric	location and/or person
show	С	1	-	-	post	adhoc_tbl	Y or N	show indicator
sort_direct	C	4	-	-	post	adhoc_svdet	ASC or DESC	direction to list sort

MNEMONIC	ТҮР	LEN	NUL	IDX	DB	TABLE	RANGE	DESCRIPTION
ssn	С	9	N	1	post	locator_tbl	Free Form	Social Security Number
status	С	1	-	-	-	-	P, S or T	Status
stru_command_cd	С	2	-	-	unit		Alphanumeric	Army Major command Code
Submit	С	1	N		post	ecps_tbl	Y or N, cannot be blank	Submitted for remedy
table_name	С	18	-	-	post	adhoc_tbl	Alphanumeric	legal table name
tabname	С	18	N	-		max_id	Alphanumeric	legal table name
title	С	20	-	-	post	ecps_tbl	Alphanumeric	Title
un_descr_dsg_id	С	2	-		ilidb	individual	Alphanumeric	Unit descriptive Designator ID
un_descr_dsg_id	2	N	3	-	unit		Alphanumeric	Unit descriptive Designator ID
un_descr_dsg_id	С	2	N	3	-	unit_phone	Alphanumeric	Unit descriptive Designator ID
un_office_sym	С	16	-		ilidb	unit	Alphanumeric	Unit Office Symbol
un_porg_dsg_id	С	3	-		ilidb	individual	Alphanumeric	Unit Parent Organization designator id
un_porg_dsg_id	С	3	N	3	-	unit	Alphanumeric	Unit Parent Organization designator id
un_porg_dsg_id	С	3	N	3	-	unit_phone	Alphanumeric	Unit Parent Organization designator id
un_svc_dsg_cd	С	1	-		ilidb	individual	Alphanumeric	Unit Service Designator code
un_svc_dsg_cd	С	1	N	3	-	unit	Alphanumeric	Unit Service Designator code
un_svc_dsg_cd	С	1	N	3	-	unit_phone	Alphanumeric	Unit Service Designator code
unit	С	30	N	-	post	demobloc	Free Form	Unit Name
unit_name	С	30	-		ilidb	unit	Alphanumeric	Unit Name
user_id	С	8	N		post	ecps_tbl	Alphanumeric, cannot be blank	User Identification
user_id	С	8	-	-	post	adhoc_svqry	Free Form	user login
user_id	I	4	N	-	-		Security	number field 3 of /etc/passwd
username	С	14	N	-	post	printer_default	Login name	valid user name
value	С	32	-	-	post	adhoc_svdet	Free Form	value used to compare in where clause
wo_asi_cd	С	2	-		ilidb	wo_occ_spec	Alphanumeric	Warrant Officer ASI code
wo_mgmt_br_cd	С	2	-		ilidb	warr_off	Alphanumeric	Warrant Officer management branch code
wo_mos_id	С	4	-	-		wo_occ_spec	Alphanumeric	Warrant Officer MOS ID
wo_sqi_cd	С	1	-	-		wo_occ_spec	Alphanumeric	Warrant Officer SQI code